DRAFT

NAVY TRAINING SYSTEM PLAN

FOR THE

AIR CAPABLE SHIP

VISUAL LANDING AID SYSTEMS

N88-NTSP-A-50-9205A/D

OCTOBER 1999

AIR CAPABLE SHIP VISUAL LANDING AID SYSTEMS

EXECUTIVE SUMMARY

This Navy Training System Plan (NTSP) has been developed to identify the life cycle manpower, personnel, and training requirements associated with Air Capable Ship Visual Landing Aid (VLA) Systems.

Due to the similarity and close interface between systems, all Air Capable Ship VLA Systems are addressed together in this NTSP. The Air Capable Ships complement of VLA Systems includes the Helicopter Operations Surveillance System (HOSS), Wind Measuring and Indicating System (WMIS), Stabilized Glide Slope Indicator (SGSI), Horizon Reference Set (HRS), Flight Deck Status and Signaling System (FDSSS), and the Wave-Off Light (WOL) MK 1 Mod 0. These systems are used to enhance the capability of helicopters to operate at night and in adverse weather conditions from the small flight decks of Air Capable Ships. All VLA Systems are post Milestone III Decision Point, and are in Acquisition Phase III - Production, Deployment, and Operational Support of the Weapons System Acquisition Process and are in fleet-wide use.

The HOSS is operated from the Combat Information Center by Interior Communication Electricians (ICs) with Navy Enlisted Classification (NEC) 4746. The HRS, FDSSS, and WOL are operated by Landing Signal Officers (LSOs). The WMIS and SGSI require no operator. The VLA Systems are maintained at the organizational and intermediate levels by ICs, Electrician's Mates, and Electronic Technicians with NECs 4746, 4758, or 4673, as applicable.

Initial training required to support the development and fleet introduction of the VLA Systems has been completed. Initial instructor training for WMIS will be provided by Naval Air Warfare Center Aircraft Division Lakehurst, New Jersey. LSO qualifications are obtained through On-the-Job Training. Follow-on operator and maintenance training for the HOSS is established at Service School Command Great Lakes, Illinois. Follow-on maintenance training for the HRS is established at Fleet Training Center (FTC) Norfolk, Virginia, and FTC San Diego, California. SGSI, FDSSS, and WOL follow-on maintenance training is established at Naval Air Maintenance Training Group Detachments Norfolk, Virginia, and North Island, California. Follow-on maintenance training for the WMIS will be established at FTC Norfolk and FTC San Diego by incorporating WMIS information into existing course, A-651-0047, Propulsion Alarms and Indicating Systems Maintenance. A tentative Ready For Training date of first quarter Fiscal Year (FY)01 has been established for WMIS.

Current Air Capable Ship manning is sufficient to operate and maintain the VLA Systems addressed in this NTSP. No changes to manpower requirements are necessary.

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LIST OF ACRONYMS

ACDU	Active Duty
BITE	Built-In Test Equipment
CI	Control-Indicator
CIC	Combat Information Center
CM	Corrective Maintenance
CIN	Course Identification Number
CINCLANTFLT	Commander In Chief, Atlantic Fleet
CINCPACFLT	Commander In Chief, Pacific Fleet
CNET	Chief of Naval Education and Training
CNO	Chief of Naval Operations
CSMP	Consolidated Ships Maintenance Plan
DT	Developmental Test
ECA	Electronic Component Assembly
EM	Electrician's Mate
EMI	Electromagnetic Interference
ET	Electronics Technician
FDSSS	Flight Deck Status and Signaling System
FMS	Foreign Military Sales
FN	Fireman
FTC	Fleet Training Center
FTS&L	Fleet Technical Services and Logistics
FY	Fiscal Year
GFE	Government Furnished Equipment
GQ	General Quarters
HCS	Helicopter Control Station
HOSS	Helicopter Operations Surveillance System
HRS	Horizon Reference Set
Hz	Hertz
IC	Interior Communications Electrician
ILSP	Integrated Logistics Support Plan

AIR CAPABLE SHIP VISUAL LANDING AID SYSTEMS

LIST OF ACRONYMS

ISD	Indicator Stabilization Data
LAMPS	Light Airborne Multipurpose System
LPBA	Lamp Panel and Bar Assembly
LSA	Logistic Support Analysis
LSO	Landing Signal Officer
MSD	Material Support Date
NA	Not Applicable
NAMTRAGRU DET	Naval Air Maintenance Training Group Detachment
NAS	Naval Air Station
NAVAIRSYSCOM	Naval Air Systems Command
NAVPERSCOM	Naval Personnel Command
NAWCAD	Naval Air Warfare Center Aircraft Division
NAWCADLKE	Naval Air Warfare Center Aircraft Division Lakehurst
NEC	Navy Enlisted Classification
NOB	Naval Operations Base
NOBC	Navy Officer Billet Code
NTC	Naval Training Center
NTSP	Navy Training System Plan
OJT	On-the-Job Training
OPNAV	Office of The Chief of Naval Operations
OPO	OPNAV Principal Official
OT	Operational Test
PFY	Previous Fiscal Years
PM	Preventive Maintenance
PMA	Program Manager, Air
PQS	Personnel Qualification Standards
RAST	Recovery Assist, Securing, and Traversing
RFT	Ready For Training
SGSI	Stabilized Glide Slope Indicator
SIMA	Shore Intermediate Maintenance Activity
SRA	Shop Replaceable Assembly

AIR CAPABLE SHIP VISUAL LANDING AID SYSTEMS

LIST OF ACRONYMS

SSC	Service School Command
TAR	Training Air Reserve
TD	Training Device
TTE	Technical Training Equipment
VAC	Volts Alternating Current
VCR	Video Cassette Recorder
VDC	Volts Direct Current
VLA	Visual Landing Aid
WMIS	Wind Measuring and Indicating System
WOL	Wave-Off Light
WRA	Weapon Replaceable Assembly

AIR CAPABLE SHIP VISUAL LANDING AID SYSTEMS

PREFACE

This Draft Navy Training System Plan (NTSP) for the Air Capable Ship Visual Landing Aid Systems has been developed in accordance with the guidelines set forth in the Navy Training Requirements Documentation Manual, OPNAV Publication P-751-1-9-97. This document incorporates all changes to the program that have occurred since the Approved Navy Training Plan (NTP), Air Capable Ship Visual Landing Aid Systems, A-50-9205/A, was published in October 1993.

Major changes include the updated NTSP format, revision of the maintenance and training concepts, establishment of follow-on training for Wind Measuring and Indicating System (WMIS), and inclusion of new delivery schedules.

PART I - TECHNICAL PROGRAM DATA

A. NOMENCLATURE-TITLE-PROGRAM

1. Nomenclature-Title-Acronym. Air Capable Ship Visual Landing Aid Systems

2. Program Element. 43SJ830

B. SECURITY CLASSIFICATION

1. System Characteristics ..... Unclassified
2. Capabilities ..... Unclassified
3. Functions ..... Unclassified

C. MANPOWER, PERSONNEL, AND TRAINING PRINCIPALS

OPNAV Principal Official (OPO) Program Sponsor..... CNO (N885D)

OPO Resource Sponsor..... CNO (N885D)

Developing Agency..... NAVAIRSYSCOM (PMA251)

Training Agency ..... CINCLANTFLT
CINCPACFLT
CNET

Training Support Agency..... NAVAIRSYSCOM (PMA205)

Manpower and Personnel Mission Sponsor..... CNO (N12)
NAVPERSCOM (PERS-4, PERS-404)

Director of Naval Training ..... CNO (N7)

D. SYSTEM DESCRIPTION

1. Operational Uses. The Helicopter Operations Surveillance System (HOSS), WMIS, Stabilized Glide Slope Indicator System (SGSI), Horizon Reference Set (HRS), Flight Deck Status and Signaling System (FDSSS), and Wave-Off Light (WOL) MK 1 MOD 0 are Visual Landing Aids (VLAs) designed to improve safety and efficiency and to enhance the capability of

helicopters to operate day and night and in adverse weather conditions from the small flight decks of Air Capable Ships.

2. Foreign Military Sales. Specific information concerning the Foreign Military Sales (FMS) of the six VLA Systems addressed in this NTSP may be obtained from the Program Office, Naval Air Systems Command (NAVAIRSYSCOM) PMA251.

a. Helicopter Operations Surveillance System. The HOSS is used aboard United States Coast Guard vessels.

b. Wind Measuring and Indicating System. The WMIS is used aboard United States Coast Guard vessels.

c. Stabilized Glide Slope Indicator. Sales of SGSI Systems have been made to Spain, Taiwan, and Australia.

d. Horizon Reference Set. Sales of the HRS have been made to Spain, Taiwan, and Australia. Sales are ongoing and planned through Fiscal Year (FY) 03.

e. Flight Deck Status and Signaling System. Sales of the FDSSS have been made to Spain, Taiwan, and Australia. Sales are ongoing and planned through FY03.

f. Wave-Off Light. Sales of the WOL have been made to Spain, Taiwan, and Australia.

E. DEVELOPMENTAL TEST AND OPERATIONAL TEST

1. Developmental Test. Developmental Tests (DTs) for the six VLA Systems addressed in this NTSP have been successfully completed.

2. Operational Test. Operational Tests (OTs) for the six VLA Systems addressed in this NTSP have been successfully completed.

F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED

1. Helicopter Operations Surveillance System. The HOSS did not replace any existing operations surveillance system.

2. Wind Measuring and Indicating System. The WMIS was designed to replace the windsock and augment hand-held mechanical wind measuring technology.

3. Stabilized Glide Slope Indicator. The SGSI did not replace any existing glide slope indicator system.

4. Horizon Reference Set. The HRS did not replace any existing horizon reference system.

5. Flight Deck Status and Signaling System. The FDSSS did not replace any existing shipboard signaling system.

6. Wave-Off Light. The WOL replaced a less sophisticated electrical wave-off system.

G. DESCRIPTION OF NEW DEVELOPMENT

1. Functional Description

a. Helicopter Operations Surveillance System. HOSS provides an immediate and recordable closed-circuit television display of helicopter launch, recovery, Vertical Replenishment, Helicopter In-Flight Replenishment, and on-deck maneuvering operations. The televised information is displayed in real-time to facilitate control of flight deck operations during flight quarters. The video recording of this information assists in the analysis of mishaps and provides a visual training aid for pilot and flight deck personnel. The HOSS is comprised of common industrial-type video components. All remote controls, video cassette recorders (VCRs), and video monitors are located in, and operated from, the Combat Information Center (CIC) and the bridge.

b. Wind Measuring and Indicating System. All Navy ships are equipped with a WMIS that provides continuous visual indication of wind direction (in degrees) and wind speed (in knots) relative to the ship's bow. The system also provides electrical signals representative of wind direction and speed for computation of flight deck crosswind and head wind conditions, computation of wind vectors for weapon launch systems, and recording by meteorological equipment. There are two primary types of WMISs in use, Type B and Type F. Both systems operate by transmission of electrical synchro signals. The Type B system is based on 60 Hertz (Hz) electrical power, while the newer Type F system utilizes 60 Hz and 400 Hz.

c. Stabilized Glide Slope Indicator. The SGSI system is an Electromagnetic Interference (EMI) hardened landing aid designed for use on Air Capable Ships. By use of the SGSI, a helicopter pilot may visually establish and maintain the proper glide slope for a safe landing. In order to steady the glide slope indicator with respect to the pitching and rolling motions of the ship, the indicator light cell is mounted on an electro-hydraulic stabilized platform. This equipment uses a local gyro for reference and develops electronic error signals that in turn control hydraulic cylinders that move the platform in an opposite direction to the ship's pitch and roll axis. A failure detection circuit is also provided for the system internal gyro, remote gyro operation, and rate lead circuits by direct comparison with the ship's pitch and roll signals to reduce platform dynamic errors. In the event of system failure, the error detection circuits will put the system in non-ready status and shut off the indicator light.

d. Horizon Reference Set. The HRS is an all-weather, electro-mechanically stabilized landing aid designed for use on Light Airborne Multipurpose System (LAMPS) MK III

designated Air Capable Ships. It provides a visual cue or reference of the true horizon that is independent of the ship's rolling motion. The system indicator is mounted on the top aft section of the hangar structure, along the ship's centerline, and can be seen by the pilot of an approaching or hovering helicopter when he conducts his normal obstruction clearance scan. This allows the pilot to maintain the proper attitude prior to touchdown and recovery. The HRS is controlled by a three-wire, synchro input command signal that originates from the ship's gyro roll reference system. As the ship rolls, the command signal from the gyro reference system causes the indicating bar to rotate, relative to its supporting main housing, opposite and proportional to the ship's roll. The internal positional feedback circuitry will then ensure that the bar remains parallel to the horizon by eliminating any error.

e. Flight Deck Status and Signaling System. The FDSSS is a panel-type command and control system designed for use on Air Capable Ships equipped to support LAMPS MK III air operations. The system enables the Helicopter Control Officer at the helicopter landing deck or the Landing Signal Officer (LSO) (Navy Officer Billet Code (NOBC) 1310) at the Recovery Assist, Securing, and Traversing (RAST) Control Console to request and receive launch and recovery authorization from the bridge and CIC. Wave-off control can only be initiated from the RAST Control Console, Operations Request Panel, or Wave-off Master Control Panel.

f. Wave-Off Light. The WOL system is an electronic signaling system designed for use on Air Capable Ships. WOLs are installed on each side of the SGSI platform. When activated, WOLs provide a visual indication to a helicopter pilot to discontinue the landing approach. There are two configurations of the WOL system. The 618401-1 system kit is used on Air Capable Ships that are not configured with the LAMPS MK III VLA System. The 618401-2 system kit is used aboard Air Capable Ships that are configured with LAMPS MK III VLAs.

2. Physical Description

a. Helicopter Operations Surveillance System. The HOSS consists of a day-night camera using a 10:1 zoom lens in an environmental housing on a remote control pan and tilt mount. Additionally, a video monitor is located on the bridge. A video date and time generator is provided, and pilot, LSO, and CIC voice communications may be recorded on video tape at the ship's discretion. The HOSS is comprised of the following major assemblies:

(1) Camera Station. The Camera Station is located near the helicopter pad and consists of a closed circuit television camera, pan and tilt assembly, pedestal assembly, and junction box.

(2) Control Station. The Control Station is located in the CIC and consists of a nine-inch black and white monitor and mount, a Video Cassette Recorder, a time and date generator, a remote camera/pan and tilt control, and an additional operator control unit.

(3) Monitoring Station. The Monitoring Station is located in the bridge compartment and consists of a nine-inch black and white monitor and mounting rack, and an operator control unit.

(4) Station Interconnect Cabling. The Station Interconnect Cabling connects the control station with the camera station and the bridge monitor station.

ASSEMBLY	QTY	DIMENSIONS (INCHES) HEIGHT - WIDTH - DEPTH			WEIGHT (POUNDS)
Camera	1	7" diameter x 28" length			45
Pan and Tilt Assembly	1	16.0	14.0	10.0	65
Junction Box	1	5.0	12.0	10.0	20
System Control Unit	1	20.0	16.0	6.0	30
Operator Control Unit	2	8.0	6.0	4.0	15
9" Control Station Monitor	2	8.6	8.7	9.8	13
Video Cassette Recorder (With Mount)	1	6.0	20.0	17.0	16

b. Wind Measuring and Indicating System. The major units making up both the Type B and Type F WMIS include a detector unit, transmitter unit, and an indicator unit. On larger ships, the system may include a synchro amplifier unit, a crosswind and head wind computer unit, a crosswind and head wind speed indicator unit, and a wind direction and speed recorder unit. The physical configuration of equipment making up the Type B and Type F WMIS is very similar. As previously mentioned, the primary difference between the two systems is the electrical frequency. The Type B operates as a 60 Hz system. Although the outputs from the Type F transmitter unit include both 400 Hz and 60 Hz synchro wind speed and direction signals, the Type F is primarily a 400 Hz system. Since the Type F system utilizes newer synchros than the Type B, the Type F system is considerably more accurate. Synchros used in both the Type B and Type F wind systems have limitations relative to the number of receivers that they can handle. The Type B equipment will accommodate nine indicators or comparable units. The Type F system can handle thirteen 400 Hz receivers and thirty-five 60 Hz receivers. The equipment employs 400 Hz synchros (type 18CX4, 18CT4, and 31TRX4) and 60 Hz synchros(type 18TRX6 and 37TRX6).

ASSEMBLY	QTY	DIMENSIONS (INCHES) HEIGHT - WIDTH - DEPTH			WEIGHT (POUNDS)
Detector	2	32.0	15.5	27.5	15.5
Transmitter	1*	13.5	15.5	7.5	61.0

ASSEMBLY	QTY	DIMENSIONS (INCHES) HEIGHT - WIDTH - DEPTH			WEIGHT (POUNDS)
Indicator	1**	11.1	7.4	4.9	15.0
BITE, Single Station	1	24.0	20.0	11.1	81.0
BITE, Dual Station:					
Synchro Panel Assembly	1	14.0	13.0	7.0	24.0
Test Panel Assembly	1	20.0	16.0	11.1	58.0

* Some installations will require more than one transmitter.
** Various and multiple indicators can be utilized in one WMIS system.

c. Stabilized Glide Slope Indicator. The SGSI MK 1 MOD 0/MOD 1 System consists of the following major subassemblies:

(1) Electronics Enclosure Assembly F100. This assembly is a bulkhead mounted enclosure located in a closed compartment in the proximity of the stabilized platform. It is the electronic signal processing, distribution, and control center for the system. This assembly houses the EMI Hardening Enclosure Assembly, gyro amplifier, 28 Volts Direct Current (VDC) power supply, dual +/- 15 VDC power supply, 400 Hz inverter, card cage containing ten circuit board assemblies, terminal boards for wire connections, and the Components Panel Assembly. The Electronics Enclosure receives ship's electrical power and converts and/or distributes operational voltages through the system. The Components Panel Assembly (F120) is used to prepare the system for operation and contains relays, switch-indicator assemblies, light indicators, on-off switches, fuse assemblies, test jacks, and a 15 amp system circuit breaker.

(2) Remote Control Panel Assembly F200. This assembly is a bulkhead mounted panel located in the flight control room, providing remote controls and indicators for operating and monitoring the SGSI System. The hinged cover panel contains mountings for a gyro alarm reset, audio alarm override, on-off switches, indicator lights to advise of system status, and controls for adjusting source light intensity and panel illumination. The Source Light Failure Board Assembly (F201) mounted in the panel detects failures in the glide slope indicator source light circuit and illuminates a failure warning light on the cover. The gyro failure audio alarm circuit is protected by the Diode Plate Assembly mounted in the unit containing diode protection circuitry.

(3) Hydraulic Pump Assembly F300. This is a deck mounted assembly which is a self-contained, closed-loop hydraulic system. It is comprised of an electric motor, coupling and pump assembly, reservoir, fluid heater, suction and pressure filters, sight gage, valves, pressure switches, associated plumbing, and a cover assembly. Ship's electrical power is required to operate the hydraulic system, which develops hydraulic pressure for operation of the pitch and roll actuators of the stabilized platform.

(4) Transformer Assembly F400. This assembly is bulkhead mounted within three feet of the stabilized platform and is connected by a fixed length of cable, ten feet long, in order to minimize voltage drop. The transformer supplies power to the three 21-volt, 150-watt projection style lamps used in the glide slope indicator for source lights.

(5) Glide Slope Indicator Assembly F500. This assembly is secured to the top of the stabilized platform and consists of two major subassemblies, the Adjustable Mount Assembly and the Glide Slope Indicator Subassembly. The Adjustable Mount Assembly provides elevation and lateral adjustments to accurately position and mount the Glide Slope Indicator Subassembly to the stabilized platform. The Glide Slope Indicator Subassembly, secured to the Adjustable Mount Assembly, contains the blower hood assembly, lampstick assembly, two lens heater assemblies, a fresnel lens, and a tricolor lenticular lens. This subassembly provides the stabilized, visual reference light bar used by the pilot of an approaching aircraft to establish a safe landing glide slope angle.

(6) Stabilized Platform Assembly F600. This is a deck mounted assembly adjacent to the helicopter landing area. The Stabilized Platform Assembly contains a system gyro, pitch and roll hydraulic actuated cylinders, electrically operated servo-valves, and a gimballed platform which is made up from a top plate assembly, a universal assembly, and a base plate. This platform is used to stabilize the glide slope indicator around the ship's pitch and roll motions maintaining the projected light beam at a fixed angle to the horizon. The gyro acts as a sensor for the system, detecting deviations from the level platform position and directing error signals to the gyro sensing circuits. The signals are further processed and distributed to power the servo-valves. These servo-valves control the hydraulic pressure to the pitch and roll hydraulic actuators, stabilizing the glide slope indicator.

(7) Separate Gyro F800. The separate gyro is a deck mounted assembly which contains a vertical reference sensor used to provide the pitch and role input to the MK 1 MOD 1 Stabilized Glide Slope Indicator (SGSI without ship's pitch and roll input).

(8) Isolation Transformer F900. The Isolation Transformer F900 is a weather-tight enclosure mounted near the Electronics Enclosure Assembly. An interconnecting cable, which is part of the Isolation Transformer Assembly, serves to connect it to the Electronic Enclosure Assembly. Weatherproof stuffing tubes are installed for cables connecting the Isolation Transformer Assembly to the Electronics Enclosure Assembly and ship's power.

ASSEMBLY	UNIT NUMBER	DIMENSIONS (INCHES) HEIGHT - WIDTH - DEPTH			WEIGHT (POUNDS)
Electronics Enclosure	F100	30.0	24.0	9.0	108
Remote Control Panel	F200	14.0	12.0	6.0	22
Hydraulic Pump	F300	27.9	17.0	26.0	245
Transformer Enclosure	F400	13.3	9.2	6.6	27

ASSEMBLY	UNIT NUMBER	DIMENSIONS (INCHES) HEIGHT - WIDTH - DEPTH			WEIGHT (POUNDS)
Indicator	F500	13.0	22.5	26.0	60
Stabilized Platform	F600	24.5	25.0	28.0	277
Separate Gyro	F800	8.6	8.0	24.0	25
Isolation Transformer	F900	11.0	9.3	8.4	60

d. Horizon Reference Set. The HRS requires input power of 115 Volts Alternating Current (VAC) +/- 7% (107 to 123 VAC), 60 Hz +/- 3% (58 to 62 Hz), 1.5A, two-wire, single phase and 115 VAC +/- 7%, 400 Hz +/- 5% (380 to 420 Hz), 7.5Amp, two-wire, single phase at the Electronic Component Assembly (ECA) for operation of the system. The power returns are above ground and are not common grounded. A separate 115 VAC, 400 Hz, three-wire synchro command signal from the ship's vertical reference system is required to drive the Light Panel and Bar Assembly (LPBA) (Synchro Control Transmitter, type 18CX4, with a ratio of synchro angle input to bar displacement of two electrical degrees for each degree of actual roll). These input signals are also connected in the ECA. The HRS consists of three major subassemblies.

(1) Indicator Stabilization Data. The Indicator Stabilization Data (ISD) is located on the ship's centerline, facing aft, above the hangar structure. It includes the electromechanical drive, which positions the LPBA so that it remains parallel to the natural horizon. The LPBA is ten feet long and is illuminated throughout its length by green, electro-luminescent panels, which are mounted on the aft face. A warning lamp assembly is located on top of the ISD. It is a red globe, navigational-type light that is designed to illuminate in the event of a system malfunction or failure to provide a visual warning to the pilot.

(2) Electronic Component Assembly. The ECA contains the electronic servo control circuitry primary power, signal, and operating controls. Its function is to provide the electrical signals to drive the LPBA to the correct position. It is typically located in the hangar bay near the flight control area.

(3) Control Indicator. The Control Indicator (CI) contains power and operating controls with status indicators. These controls are duplicated in the ECA; however, the CI has primary control with override capability and is mounted in the Helicopter Control Station (HCS).

ASSEMBLY	UNIT NUMBER	DIMENSIONS (INCHES) HEIGHT - WIDTH - DEPTH			WEIGHT (POUNDS)
ISD (less LPBA)	212601-2	19.1	20.4	28.5	136
LPBA	212689	5.0	120.0	5.4	65
Warning Lamp	212784	8.0	5.5	5.3	4

Electronic Components	212602-2 212602-3*	17.0	17.0	9.6	45
Control-Indicator	212603-2 212603-3*	8.2	9.4	4.8	6

***** Indicates new part number after incorporation of Launch and Recovery Change 61.

e. Flight Deck Status and Signaling System. The FDSSS consists of the following subassemblies:

(1) Operations Request Panel. The Operations Request Panel is comprised of a launch and recovery sequence switch that enables the operator to request and receive authorizations. The panel also provides the CIC and Bridge Panel with indication of the status of launch or recovery and other related helicopter operations. The deck status and wave-off lights are also controlled and monitored from this panel.

(2) Interface Control Unit. The Interface Control Unit contains the control circuit components including the Diode Board Assembly. It also provides for the interconnection of the FDSSS with the Wave-Off Master Control Panel, the RAST Control Console, and the Deck Status Light.

(3) Bridge and Combat Information Center Response Panels. The Bridge and CIC Response Panels are located in the ship's bridge and CIC. The panels provide the capability for either or both locations to authorize, monitor, and control helicopter operations. The panel is comprised of lights which indicate the stage or sequence of the helicopter operations and lights that indicate flight deck status and wave-off light illumination.

NOMEN-CLATURE	**PART NUMBER**	**QTY**	**DIMENSIONS (INCHES) HEIGHT - WIDTH - DEPTH**			**WEIGHT (POUNDS)**
Operations Request Panel	612060-1 621060-21*	1	8.0	11.8	7.3	12
Interface Control Unit	621062-1 621062-10* 621062-11**	1	17.5	15.0	6.1	20
Bridge/CIC Response Panel	621061-1 621061-10* 621061-11**	2	7.0	11.0	7.3	5

* After incorporation of Service Change 26.

** After incorporation of service change 29 and 31 Revision A.

f. Wave-Off Light. The assemblies that comprise the WOL, together with their unit numbers, are as follows:

(1) Master Control Panel Assembly (G100). The Master Control Panel Assembly is bulkhead mounted in the flight control area. This panel is the signal processing, distribution, and control center for the WOL system. The panel contains the monitor, flasher-driver, extender circuit cards, step-down transformer, and terminal boards used for the system interconnecting wire terminations. The only difference between the -1 and -2 assemblies are different lens plates and the location of the information decal.

(2) Remote Panel Assembly (G200, G200A). Remote Panel Assembly G200 is installed on the ship's bridge and G200A in the flight control area. Each contain a switch that when pressed, energizes the wave-off lights. The units also contain a dimmer circuit board assembly and a terminal board used for system wiring interconnection. Remote Panels are used with the -1 system only.

(3) Junction Box Assembly (G300, G300A). The Junction Box Assemblies are identical units that are mounted on each side of the hangar door. They provide a remote location for connecting a hand held portable switch.

(4) Junction Box Assembly (G400). The Junction Box Assembly provides a means to connect the cable from the Master Control Panel with the WOL cables. It is located with the WOL Assemblies.

(5) Wave-Off Light Assembly (G500, G500A). The WOLs are identical units and are mounted one on each side of the SGSI platform.

ASSEMBLY	UNIT NUMBER	DIMENSIONS (INCHES) HEIGHT - WIDTH - DEPTH			WEIGHT (POUNDS)
Master Control Panel	G100	15.0	11.5	7.0	35
Remote Panel	G200, G200A	6.5	5.4	4.5	10
Junction Box	G300, G300A	4.1	4.1	3.1	2
Junction Box	G400	7.1	4.1	4.6	10
Wave-Off Light	G500, G500A	22.0	(10.0 diameter)		20

3. New Development Introduction. The six VLA Systems addressed in this NTSP are currently installed and in use aboard Air Capable Ships and will be installed on new construction Air Capable Ships, as applicable, during construction. VLA Systems are new production equipment.

4. Significant Interfaces

a. Helicopter Operations Surveillance System. The HOSS may, depending on class of ship, interface with the communication system between the helicopter, bridge, and CIC to enable the HOSS to record the audio signals between the pilot, the LSO, and the Tactical Action Officers.

b. Wind Measuring and Indicating System. The WMIS interfaces with ship's electrical and weapon fire control systems.

c. Stabilized Glide Slope Indicator. The SGSI interfaces with ship's electrical and gyro pitch and roll reference systems.

d. Horizon Reference Set. The HRS interfaces with ship's electrical and gyro roll reference systems.

e. Flight Deck Status and Signaling System. The FDSSS interfaces with the LSO RAST Control Station (only on LAMPS MK III ships), WOLs, and ship's electrical systems.

f. Wave-Off Light. The WOL interfaces with the FDSSS (only on LAMPS MK III ships) and ship's electrical systems.

5. New Features, Configurations, or Material. Not Applicable (NA)

H. CONCEPTS

1. Operational Concept

a. Helicopter Operations Surveillance System. The HOSS equipment is manned and operated by Interior Communications Electricians (ICs) during all helicopter operations.

b. Wind Measuring and Indicating System. The WMIS is activated during all underway periods, 24 hours a day, and requires no operator.

c. Stabilized Glide Slope Indicator. The SGSI is activated during flight operations. After activation, no operator action is required.

d. Horizon Reference Set. The HRS is operated during flight quarters by an LSO.

e. Flight Deck Status and Signaling System. The FDSSS is operated during flight quarters by an LSO.

f. Wave-Off Light. When activated by the LSO, the WOLs begin to flash, providing a visual indication to the pilot to abort the landing attempt and initiate a new landing approach.

2. Maintenance Concept. The maintenance concept for all the VLA Systems contained in this NTSP follows the direction and guidance outlined in the Naval Ships Maintenance, Material, and Management Program Manual 4790.4 (series).

a. Helicopter Operations Surveillance System. The HOSS maintenance is based on two levels of repair, organizational and depot. HOSS components are designed to facilitate rapid fault isolation and verification.

(1) Organizational. Organizational level maintenance of the HOSS is performed by ICs with Navy Enlisted Classification (NEC) 4746, Closed Circuit Television Technician.

(a) Preventive Maintenance. Preventive Maintenance (PM) is performed at specified intervals in accordance with established Maintenance Requirement Cards (MRCs). PM includes visual inspection, cleaning, alignment adjusting, and operational and functional testing.

(b) Corrective Maintenance. Corrective maintenance (CM) is performed as indicated by the fault isolation, removal, and replacement of Weapon Replaceable Assemblies (WRAs) and Shop Replaceable Assemblies (SRAs).

(2) Intermediate. NA

(3) Depot. Depot level maintenance will be performed at Naval Air Warfare Center Aircraft Division Lakehurst (NAWCADLKE), New Jersey. The maintenance philosophy behind HOSS depot maintenance is to perform overhaul and repair of all circuit boards and subassemblies, rework of all severely damaged or corroded equipment, and the repair and calibration of all equipment beyond organizational level capabilities.

(4) Interim Maintenance. Interim Maintenance support for HOSS was provided by the NAWCADLKE, through their Fleet Technical Services and Logistics (FTS&L) Division, prior to the HOSS Material Support Date (MSD) of second quarter FY95.

(5) Life-Cycle Maintenance Plan. NAWCADLKE provides necessary engineering technical services through their FTS&L Division. The FTS&L Division is available upon request, and provides technical assistance as required. Representatives also provide any necessary certification testing and inspections required for the HOSS during or following ship overhaul periods.

b. Wind Measuring and Indicating System. The WMIS maintenance concept is based on three levels of maintenance as outlined in Maintenance Plan SSIED MP. No. 002-80, dated 25 November 1980.

(1) Organizational Level. Organizational level maintenance includes all maintenance performed aboard ship by ship's personnel. Organizational level maintenance of the WMIS is performed by ICs on all class ships. There is no NEC requirement for WMIS maintenance technicians.

(a) Preventive Maintenance. PM actions include cleaning, inspection, lubrication, and operational and functional testing of WMIS units.

(b) Corrective Maintenance. CM consists of operational and functional tests, fault isolation, and unit repair by assembly, subassembly, component, or piece-part replacement.

(2) Intermediate Level. Intermediate level maintenance is performed at Shore Intermediate Maintenance Activities (SIMAs) and afloat aboard tenders by ICs. Intermediate level maintenance consists of unit test and fault isolation to the component or piece-part level and repair by component or piece-part replacement. Also, subassemblies and components that are beyond the capability of repair at the organizational level are repaired by removal and replacement of defective piece-parts.

(3) Depot Level. Depot level maintenance includes repair or overhaul and calibration of all end items, including units, repairable assemblies, subassemblies, and components coded for depot repair or found to be beyond the capability of intermediate maintenance activities.

(4) Interim Maintenance. Interim Maintenance support for Type F Hi-Shock WMIS was provided by NAWCADLKE, through their FTS&L Division, prior to the MSD of February 1997.

(5) Life-Cycle Maintenance Plan. NAWCADLKE provides necessary engineering technical services through their FTS&L Division. The FTS&L Division is available upon request, and provides technical assistance as required. Representatives also provide any necessary certification testing and inspections required for the WMIS during or following ship overhaul periods.

c. Stabilized Glide Slope Indicator. The SGSI System maintenance plan (SSIED MP NO. 010-79 dated 16 March 1981) is based on two levels of maintenance, organizational and depot.

(1) Organizational Level. Organizational level maintenance is performed by ship’s ICs, Electrician’s Mates (EMs), or Electronics Technicians (ETs) and includes both PM and CM.

(a) Preventive Maintenance. PM actions include cleaning, inspection, lubrication, and operational and functional testing of SGSI units.

(b) Corrective Maintenance. CM consists of functional testing, fault isolation, subassembly repair, and the removal and replacement of scheduled overhaul components.

(2) Intermediate Level. NA

(3) Depot Level. Depot level maintenance of the SGSI consists of repair of assemblies that are not within the capability of the ship's force, plus scheduled overhaul of the Gyro Assembly and the Glide Slope Indicator Subassembly.

(4) Interim Maintenance. NA

(5) Life-Cycle Maintenance Plan. The SGSI system is to be overhauled by the depot at a three to five year interval coinciding with the ship's major overhaul period.

d. Horizon Reference Set. As documented by the HRS Maintenance Plan, NAWCADLKE-M84096008 approved 15 October 1996, the HRS maintenance concept conforms to the maintenance concept, procedures, and capabilities described in the Consolidated Ships Maintenance Plan (CSMP) which prescribes three levels of maintenance, organizational, intermediate, and depot.

(1) Organizational Level. Maintenance of the HRS is performed by EMs with NEC 4673, LAMPS MK III Recovery Assist, Secure, Traversing (RAST)/HRS Electrical Maintenanceman, and includes both PM and CM.

(a) Preventive Maintenance. PM includes cleaning, inspection, corrosion control, lubrication, functional checkout, and scheduled component removal as required by the applicable MRCs.

(b) Corrective Maintenance. CM consists of operational and functional tests, fault isolation, and unit repair by assembly, subassembly, component, or piece-part replacement.

(2) Intermediate Level. Condition based modular replacement of selected WRAs and SRAs are performed during scheduled intermediate maintenance availability periods, by ashore and afloat Intermediate Maintenance Activity personnel. Intermediate level maintenance is performed aboard tender ships, SIMAs, and advanced bases such as Ship Repair Facilities.

(3) Depot Level. Depot level maintenance consists of repair and refurbishment of WRAs and SRAs Beyond the Capability of intermediate level maintenance. Depot level maintenance of the HRS servo motor is accomplished through commercial repair.

(4) Interim Maintenance. NA

(5) Life-Cycle Maintenance Plan. Progressive refurbishment is the key to the Life Cycle Maintenance Plan strategy, which is predicated on a seven to ten year ship's operating cycle. The strategy is based on phased modular replacement before wear out or failure. Selected equipment is programmed for modular replacement before failure, as determined by the Logistic Support Analysis (LSA) failure rates over a 30-year period, thereby reducing ships force workload by accomplishing required maintenance during PM periods.

e. Flight Deck Status and Signaling System. Maintenance of FDSSS is performed in accordance with the FDSSS Maintenance Plan (NAWCADLKE-M84096009 approved 15 October 1996). All FDSSS maintenance is performed at the organizational level.

(1) Organizational Level. Organizational level maintenance is performed by EMs and includes both PM and CM. No NEC is required or applicable to FDSSS maintenance.

(a) Preventive Maintenance. PM consists of performing a pre-operational test on the system daily when operating, a more comprehensive system test monthly, and a semi-annual comprehensive inspection.

(b) Corrective Maintenance. CM procedures include fault isolation down to the lowest level repairable, removal and replacement of failed components, and system checkout.

(2) Intermediate. NA

(3) Depot. NA

(4) Interim Maintenance. NA

(5) Life-Cycle Maintenance Plan. NA

f. Wave-Off Light. The WOL System Maintenance Plan (SSIED MP NO. 003-82 dated 13 May 1982) is based on two levels of maintenance, organizational and depot.

(1) Organizational Level. Organizational level maintenance is performed by ICs and includes both PM and CM. No NEC is required or applicable to WOL maintenance.

(a) Preventive Maintenance. PM includes cleaning, inspection, and functional testing of units making up the WOL System.

(b) Corrective Maintenance. CM includes functional testing, fault isolation to a failed component, subassembly removal, repair, and replacement.

(2) Intermediate Level. NA

(3) Depot Level. Repair actions beyond the capability of the ship's force will be performed at designated depot level facilities.

(4) Interim Maintenance. NA

(5) Life-Cycle Maintenance Plan. NA

3. Manning Concept

a. Helicopter Operations Surveillance System

(1) Watch Station Requirements. The HOSS is manned and operated by the IC assigned to CIC during helicopter operations and General Quarters (GQ) as follows:

STATION TITLE	SKILL IDENTIFIER	GENERAL QUARTERS MANNING	FLIGHT QUARTERS MANNING
CIC	IC2, NEC 4746	1	1

(2) Maintenance Workload. HOSS maintenance is be performed by the same ICs that maintain the ship's Information, Training, and Entertainment Closed Circuit Television systems. The estimated maintenance man-hours per week listed below were provided by NAWCADLKE.

SKILL IDENTIFIER	PM	CM
IC2, NEC 4746	0.00	0.01
IC3, NEC 4746	0.03	0.02
ICFN	0.05	0.00
TOTALS	**0.08**	**0.03**

(3) Recommended Manpower Requirements. The following manpower currently onboard Air Capable Ships is sufficient to operate and maintain the HOSS:

SKILL IDENTIFIER	QUANTITY
IC2, NEC 4746	1
IC3, NEC 4746	1
ICFN	1

b. Wind Measuring and Indicating System

(1) Watch Station Requirements. There are no watch station requirements for the WMIS. The system is activated at all times while underway. No operator action is required after activation.

(2) Maintenance Workload. ICs are responsible for PM and CM performed on the WMIS. The estimated maintenance man-hours per week listed below were provided by NAWCADLKE:

SKILL IDENTIFIER	PM	CM
IC2	0.30	0.25
ICFN	0.30	0.25
TOTALS	**0.60**	**0.50**

(3) Recommended Manpower Requirements. The following manpower currently onboard Air Capable Ships is sufficient to maintain the WMIS.

SKILL IDENTIFIER	QUANTITY
IC2	1
ICFN	1

c. Stabilized Glide Slope Indicator

(1) Watch Station Requirements. There are no watch station requirements for the SGSI. No further operator action is required after activation.

(2) Maintenance Workload. ICs, EMs, or ETs with NEC 4758 are responsible for maintenance of the SGSI. The estimated maintenance man-hours per week listed below were provided by NAWCADLKE:

SKILL IDENTIFIER	PM	CM
IC3/EM3/ET3 NEC 4758	0.46	0.14
ICFN/EMFN/ETFN	0.35	0.14
TOTALS	**0.81**	**0.28**

(3) Recommended Manpower Requirements. The following manpower currently onboard Air Capable Ships is sufficient to maintain the SGSI.

SKILL IDENTIFIER	QUANTITY
IC3/EM3/ET3, NEC 4758	1
ICFN/EMFN/ETFN	1

d. Horizon Reference Set

(1) Watch Station Requirements. Operation of the HRS is accomplished during Flight Quarters and GQ by LAMPS Detachment LSOs. The LSO is a collateral duty assignment.

STATION TITLE	SKILL IDENTIFIER	GENERAL QUARTERS MANNING	FLIGHT QUARTERS MANNING
LSO	O-2 through O-4, NOBC 1310	1	1

(2) Maintenance Workload. Ships company EMs are responsible for maintenance of the SGSI. The estimated maintenance man-hours per week listed below were provided by NAWCADLKE:

SKILL IDENTIFIER	PM	CM
EM2, NEC 4673	0.02	0.07
EM3, NEC 4673	3.75	0.07
EMFN	3.63	0.0
TOTALS	**7.40**	**0.14**

(3) Recommended Manpower Requirements. The following manpower currently aboard Air Capable Ships is sufficient to maintain the HRS:

SKILL IDENTIFIER	QUANTITY
EM2, NEC 4673	1
EM3, NEC 4673	1
ICFN	1

e. Flight Deck Status and Signaling System

(1) Watch Station Requirements. Operation of the FDSSS is accomplished during Flight Quarters and GQ by LAMPS Detachment LSOs. The LSO is a collateral duty assignment.

STATION TITLE	SKILL IDENTIFIER	GENERAL QUARTERS MANNING	FLIGHT QUARTERS MANNING
LSO	O-2 through O-4, NOBC 1310	1	1

(2) Maintenance Workload. ICs, EMs, or ETs are responsible for the maintenance of the FDSSS. The estimated maintenance man-hours per week listed below were provided by NAWCADLKE:

SKILL IDENTIFIER	PM	CM
IC3/EM3/ET3, NEC 4758	0.25	0.02
ICFN/EMFN/ETFN, NEC 4758	0.27	0.02
TOTALS	**0.52**	**0.04**

(3) Recommended Manpower Requirements. The following manpower currently aboard Air Capable Ships is sufficient to operate and maintain the HRS:

SKILL IDENTIFIER	QUANTITY
IC3/EM3/ET3, NEC 4758	1
ICFN/ETFN/ETFN	1

f. Wave-Off Light

(1) Watch Station Requirements. Operation of the WOL is accomplished during Flight Quarters and GQ by LAMPS Detachment LSOs. The LSO is a collateral duty assignment.

STATION TITLE	SKILL IDENTIFIER	GENERAL QUARTERS MANNING	FLIGHT QUARTERS MANNING
LSO	O-2 through O-4, NOBC 1310	1	1

(2) Maintenance Workload. ICs, EMs, or ETs are responsible for maintenance of the SGSI. The estimated maintenance man-hours per week listed below were provided by NAWCADLKE:

SKILL IDENTIFIER	PM	CM
IC3/EM3/ET3, NEC 4758	0.03	0.03
ICFN/EMFN/ETFN	0.03	0.03
TOTALS	**0.06**	**0.06**

(3) Recommended Manpower Requirements. The following manpower currently aboard Air Capable Ships is sufficient to maintain the WOL:

SKILL IDENTIFIER	QUANTITY
IC3/EM3/ET3, NEC 4673	1
ICFN/ETFN/ETFN	1

4. Training Concept. The objective of the VLA System for Air Capable Ships training concept is to provide the fleet with proficient VLA operators and maintainers. All six VLA Systems are currently in fleet use. Follow-on training for operators and maintainers has been established for all systems with the exception of WMIS.

a. Initial Training. All initial training required supporting DT, OT, and fleet introduction of the VLA Systems addressed in this NTSP has been completed. Initial training for WMIS instructors will be provided by NAWCADLKE. A tentative WMIS Ready For Training date of first quarter FY01 has been established.

Title	**Wind Measuring and Indicating System Instructor Initial Training**
Description	This course provides Fleet Training Center (FTC) instructors the knowledge to teach WMIS maintenance.
Location	NAWCAD Lakehurst, New Jersey
Length	5 days
RFT date	4th Quarter FY00
TTE/TD	WMIS
Prerequisites	A-623-0105, Interior Communications Electrician Class A Instructor NEC 9502

b. Follow-On Training

(1) Operator

(a) Helicopter Operations Surveillance System. The HOSS is operated by the same ICs that maintain the system.

Title	**Shipboard Information Training and Entertainment Closed Circuit Television Maintenance**
CIN	A-191-0010
Model Manager ..	Service School Command (SSC) Great Lakes, Illinois
Description	This course provides graduates with the skills to operate and maintain closed circuit television systems.
Location	SSC Great Lakes
Length	12 days
RFT date	Currently available
Skill identifier	NEC 4746
TTE/TD	Refer to section IV.A.1 for Technical Training Equipment (TTE).
Prerequisite	A-623-0105, Interior Communications Electrician Class A

(b) Wind Measuring and Indicating System. There are no operator training requirements associated with WMIS.

(c) Stabilized Glide Slope Indicator. There are no operator training requirements associated with SGSI.

(d) Horizon Reference Set. Operation of the HRS is performed by a LAMPS Detachment LSO. There is no formal LAMPS LSO training course. All LAMPS LSOs must be qualified helicopter pilots that complete a training package consisting of informal lectures, observation of launch and recovery operations, performance of launch and recovery operations with assistance, and performance of launch and recovery operations without assistance. After completing the training package, LSOs are designated in writing by the Squadron Commanding Officer.

(e) Flight Deck Status and Signaling System. The FDSSS is operated by the same LAMPS detachment LSOs that operate the HRS; therefore, no additional training is required.

(f) Wave-Off Light. The WOL is operated by the same LAMPS detachment LSOs that operate the HRS and FDSSS; therefore, no additional training is required.

(2) Maintenance

(a) Helicopter Operations Surveillance System. The HOSS is operated and maintained by ICs with NEC 4746, Closed Circuit Television Technician.

Title	**Shipboard Information Training and Entertainment Closed Circuit Television Maintenance**
CIN	A-191-0010
Model Manager ..	SSC Great Lakes, Illinois
Description	This course provides graduates with the skills to operate and maintain closed circuit television systems.
Location	SSC Great Lakes
Length	12 days
RFT date	Currently available
Skill identifier	NEC 4746
TTE/TD	Refer to section IV.A.1 for TTE.
Prerequisite	A-623-0105, Interior Communications Electrician Class A

(b) Wind Measuring and Indicating System. Currently, there is no formal follow-on maintenance training established for WMIS. However, due to identified training deficiencies, WMIS organizational and intermediate maintenance will be added to course, A-651-0047, Propulsion Alarms and Indicating Systems Maintenance, at FTC Norfolk and FTC San Diego per Training Project Plan serial number 1500T23313/400, dated 12 August 1996. All required equipment and training materials are in place with the exception of the WMIS TTE. Current plans are to remove two complete WMIS from decommissioned ships for use as TTE. A tentative RFT date of first quarter FY01 has been established for WMIS.

Title	**Propulsion Alarms And Indicating Systems Maintenance**
CIN	A-651-0047
Model Manager ..	FTC Norfolk
Description	This course provides organizational and intermediate level maintenance personnel with the knowledge and skills necessary to support the Type "B" and "F" WMIS. It also develops skills to perform PM and CM on pressure and temperature alarm sensors, alarm panels and switchboards, McNabb salinity indicating level alarm and indicating system, and various other engine room alarms on marine propulsion plants.
Locations	FTC Norfolk FTC San Diego
Length	31 days

RFT date	Currently available (1st Quarter FY01 with WMIS)
Skill identifier	No NEC is awarded
TTE/TD	Refer to section IV.A.1 for TTE.
Prerequisites	A-623-0105, Interior Communications Electricians Class A School Six months fleet experience working with alarm and indicating systems

(c) Stabilized Glide Slope Indicator. The SGSI is maintained at the organizational level by ICs.

Title	**Stabilized Glide Slope Indicator and Wave-Off Light System Maintenance**
CIN	C-670-2013
Model Manager ..	NAMTRAGRU DET 3040, Norfolk
Description	This course provides graduates with the knowledge and skills required to maintain, troubleshoot, and repair the SGSI, FDSSS, and WOL systems.
Location	NAMTRAGRU DET 3040, Norfolk NAMTRAGRU DET 3041, North Island
Length	23 days
RFT date	Currently available
Skill identifier	NEC 4758
TTE/TD	Refer to section IV.A.1 for TTE. TD is NA.
Prerequisites	EM: A-662-0159, Electrician's Mate A School Pipeline ET: A-100-0138, Electronics Technician Core A School A-100-0140, Electronics Technician Strand A School IC: A-623-0105, Interior Communications Electrician Class A

(d) Horizon Reference Set. The HRS is maintained by EMs with NEC 4673.

Title	**LAMPS MK III RAST Electrical Technician**
CIN	K-652-2204
Model Manager ..	FTC Norfolk

Description	This course provides maintenance technicians with the knowledge and skills required to maintain and troubleshoot the HRS and RAST system.
Location	FTC Norfolk FTC San Diego
Length	33 days
RFT date	Currently available
Skill identifier	NEC 4673
TTE/TD	Refer to section IV.A.1 for TTE.
Prerequisite	A-662-0159, Electrician's Mate A School Pipeline

(e) Flight Deck Status and Signaling System. The FDSSS is maintained by the same ICs, EMs, or ETs that maintain the SGSI and WOL. All applicable maintenance training requirements are covered in course C-670-2013, Stabilized Glide Slope Indicator and Wave-Off Light System Maintenance.

(f) Wave-Off Light. The WOL is maintained by the same ICs, EMs, or ETs that maintain the SGSI and HRS. All applicable maintenance training requirements are covered in the course C-670-2013, Stabilized Glide Slope Indicator and Wave-Off Light System Maintenance.

c. Student Profiles

SKILL IDENTIFIER	**PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS**
IC	A-623-0105, Interior Communications Electrician Class A
EM	A-662-0159, Electrician's Mate A School Pipeline
ET	A-100-0138, Electronics Technician Core A School A-100-0140, Electronics Technician Strand A School

d. Training Pipelines. Replacement pilot training courses for the AH-1W, UH-1N, SH-3D, SH-3H, CH-46D, CH46E, RH-53D, CH-53E, MH-53E, SH-60B, SH-60F, HH-60H, H-60A, H-60D, H-60G, H-60K, CH-47D, MH-47E, MH-6, OH-58D, and AH-64 require updating any time new VLA equipment is installed or existing equipment is modified.

I. ONBOARD (IN-SERVICE) TRAINING

1. Proficiency or Other Training Organic to the New Development

a. Maintenance Training Improvement Program. NA

b. Aviation Maintenance In-Service Training. NA

c. Aviation Maintenance Training Continuum System. NA

2. Personnel Qualification Standards. Personnel Qualification Standard (PQS) 43219-C, Helicopter Operations for Air Capable Ships, has been updated to reflect the latest changes in VLA equipment. No PQS exists or is planned for maintenance of VLA Systems.

3. Other Onboard or In-Service Training Packages. Each class of Air Capable Ships has an individualized helicopter operations training package. All personnel involved in helicopter launch and recovery operations must complete the training package and pass a locally prepared test before being certified for their flight quarters station.

Junior IC, EM, and ET personnel gain VLA maintenance experience through On-The-Job Training (OJT). OJT consists of performing on equipment PM and limited CM under the direct guidance of a senior Petty Officer who has completed advanced training on that particular system.

J. LOGISTICS SUPPORT

1. Manufacturer and Contract Numbers

SYSTEM	CONTRACT NUMBER	MANUFACTURER	ADDRESS
HOSS	N68335-90-C-0547	Kongsberg Simrad Incorporated	San Marcos, California
WMIS	N00140-87-C-1377	Airflo Instrument Company	Glastonbury, Connecticut
SGSI	N00140-88-C-RL32	T. M. Systems	Bridgeport, Connecticut
HRS	N00019-86-C-0178	Honeywell Aerospace Division	Ottawa, Ontario, Canada
FDSSS	NA	NAWCAD Lakehurst	Lakehurst, New Jersey
WOL	N68355-90-C-0002	EMW Incorporated	Lititz, Pennsylvania

2. Program Documentation

a. Helicopter Operations Surveillance System. The HOSS Integrated Logistics Support Plan (ILSP), NAEC-MISC-91-OR199, was approved in January 1987.

b. Wind Measuring and Indicating System. The WMIS Maintenance Plan, SSIED MP 002-80, was approved in November 1980. A WMIS ILSP does not exist, nor is one currently planned.

c. Stabilized Glide Slope Indicator. The SGSI Maintenance Plan, SSIED MP 010-79, was approved in March 1981. A SGSI ILSP does not exist, nor is one currently planned.

d. Horizon Reference Set. The HRS ILSP, NAEC-LR-003:A, was approved in April 1982. The HRS Maintenance Plan, NAWCAD M84096008, was approved in October 1996.

e. Flight Deck Status and Signaling System. The FDSSS ILSP, NAEC-MISC-91-OR107, was approved in April 1992. The FDSSS Maintenance Plan NAWCAD M84096009, was approved in October 1996.

f. Wave-Off Light. The WOL Maintenance Plan, SSIED MP 003-82, was approved in May 1982. A WOL ILSP does not exist, nor is one currently planned.

g. Other. In addition to the ILSPs listed above, ILSP NAEC-MISC-91-OR024, LAMPS MK III Visual Landing Aids, was approved in June 1980.

3. Technical Data Plan. All Technical Manuals, MRCs, Planned Maintenance System Work Packages, and Operator Manuals required to support the VLA Systems addressed in this NTSP have been completed and distributed. Technical Data required for new construction ships will be obtained from the Naval Air Technical Data And Engineering Service Command via the automatic distribution list. A listing of all technical data required to support VLA Systems training is available in element IV.B.3 of this NTSP.

4. Test Sets, Tools, and Test Equipment. All test sets, tools, and test equipment required to support fleet maintenance of the VLA Systems addressed in this NTSP have been delivered. Test sets, tools, and test equipment required onboard new construction ships are included in the ships initial outfitting. All test sets, tools, and test equipment required to support VLA training have been delivered with the exception of WMIS. Test sets, tools, and test equipment required to support WMIS training has not been determined. When known, they will be included in future updates to this NTSP.

5. Repair Parts. Supply support for all six VLA Systems addressed in this NTSP will be provided through normal supply channels from the Navy Inventory Control Point Mechanicsburg, Pennsylvania, and Defense Logistics Agency supply centers.

6. Human Systems Integration. NA

K. SCHEDULES

1. Installation and Delivery Schedules. Delivery and installation schedule information was provided by NAWCAD Lakehurst. The installation of VLA Systems on all active Air Capable Ships has been completed. VLA Systems will be installed, as applicable, on all new construction Air Capable Ships during construction. Delivery of new VLA Systems to the ship yards will be coordinated by NAWCAD Lakehurst to preclude installation delays or long storage times prior to installation.

a. Helicopter Operations Surveillance System. HOSS scheduled installations are complete, HOSS will be installed on all new construction LPD-17 class ships. Specific dates and hull numbers are not currently available. There is one HOSS per ship.

b. Wind Measuring and Indicating System. The WMIS installations listed below are new construction DDG 51 class ships Hull Numbers 81 through 95. WMIS will also be installed on new construction DDG 51 class ships beginning with Hull Number 96 in FY04 and concluding with Hull Number 107 in FY07. There is one WMIS per ship.

INSTALLATION SCHEDULE

SHIP	FY99	FY00	FY01	FY02	FY03
DDG 81, USS Sir Winston Churchill, 21955	X				
DDG 82, USS Lassen, 21956	X				
DDG 83, USS Howard, 22957	X				
DDG 84, USS Bulkley, 22992		X			
DDG 85, USS McCampbell		X			
DDG 86, USS Shoup, 22994			X		
DDG 87, USS Mason, 22955			X		
DDG 88, USS Preble, 22996			X		
DDG 89, 22997, (New Construction)				X	
DDG 90, 23155, (New Construction)				X	
DDG 91, 23145, (New Construction)				X	
DDG 92, 23146, (New Construction)				X	
DDG 93, (New Construction)					X
DDG 94, (New Construction)					X
DDG 95, (New Construction)					X

c. Stabilized Glide Slope Indicator. The SGSI installations listed below are new construction DDG 51 class ships Hull Numbers 81 through 95. The SGSI will also be installed on new construction DDG 51 class ships beginning with Hull Number 96 in FY04 and concluding with Hull Number 107 in FY07. There is one SGSI per ship.

INSTALLATION SCHEDULE

SHIP	FY99	FY00	FY01	FY02	FY03
DDG 81, USS Sir Winston Churchill, 21955	X				
DDG 82, USS Lassen, 21956	X				
DDG 83, USS Howard, 22957	X				
DDG 84, USS Bulkley, 22992		X			
DDG 85, USS McCampbell		X			
DDG 86, USS Shoup, 22994			X		
DDG 87, USS Mason, 22955			X		
DDG 88, USS Preble, 22996			X		
DDG 89, 22997, (New Construction)				X	
DDG 90, 23155, (New Construction)				X	
DDG 91, 23145, (New Construction)				X	
DDG 92, 23146, (New Construction)				X	
DDG 93, (New Construction)					X
DDG 94, (New Construction)					X
DDG 95, (New Construction)					X

d. Horizon Reference Set. The HRS installations listed below are new construction DDG 51 class ships Hull Numbers 81 through 95. The HRS will also be installed on new construction DDG 51 class ships beginning with Hull Number 96 in FY04 and concluding with Hull Number 107 in FY07. There is one HRS per ship.

INSTALLATION SCHEDULE

SHIP	FY99	FY00	FY01	FY02	FY03
DDG 81, USS Sir Winston Churchill, 21955	X				
DDG 82, USS Lassen, 21956	X				
DDG 83, USS Howard, 22957	X				

SHIP	FY99	FY00	FY01	FY02	FY03
DDG 84, USS Bulkley, 22992		X			
DDG 85, USS McCampbell		X			
DDG 86, USS Shoup, 22994			X		
DDG 87, USS Mason, 22955			X		
DDG 88, USS Preble, 22996			X		
DDG 89, 22997, (New Construction)				X	
DDG 90, 23155, (New Construction)				X	
DDG 91, 23145, (New Construction)				X	
DDG 92, 23146, (New Construction)				X	
DDG 93, (New Construction)					X
DDG 94, (New Construction)					X
DDG 95, (New Construction)					X

e. Flight Deck Status and Signaling System. The FDSSS installations listed below are new construction DDG 51 class ships Hull Numbers 81 through 95. The FDSSS will also be installed on new construction DDG 51 class ships beginning with hull number 96 in FY04 and concluding with Hull Number 107 in FY07. There is one FDSSS per ship.

INSTALLATION SCHEDULE

SHIP	FY99	FY00	FY01	FY02	FY03
DDG 81, USS Sir Winston Churchill, 21955	X				
DDG 82, USS Lassen, 21956	X				
DDG 83, USS Howard, 22957	X				
DDG 84, USS Bulkley, 22992		X			
DDG 85, USS McCampbell		X			
DDG 86, USS Shoup, 22994			X		
DDG 87, USS Mason, 22955			X		
DDG 88, USS Preble, 22996			X		
DDG 89, 22997, (New Construction)				X	
DDG 90, 23155, (New Construction)				X	

SHIP	FY99	FY00	FY01	FY02	FY03
DDG 91, 23145, (New Construction)				X	
DDG 92, 23146, (New Construction)				X	
DDG 93, (New Construction)					X
DDG 94, (New Construction)					X
DDG 95, (New Construction)					X

f. Wave-Off Light. The WOL installations listed below are new construction DDG 51 class ships Hull Numbers 81 through 95. The WOL will also be installed on new construction DDG 51 class ships beginning with Hull Number 96 in FY04 and concluding with Hull Number 107 in FY07. There is one WOL per ship.

INSTALLATION SCHEDULE

SHIP	FY99	FY00	FY01	FY02	FY03
DDG 81, USS Sir Winston Churchill, 21955	X				
DDG 82, USS Lassen, 21956	X				
DDG 83, USS Howard, 22957	X				
DDG 84, USS Bulkley, 22992		X			
DDG 85, USS McCampbell		X			
DDG 86, USS Shoup, 22994			X		
DDG 87, USS Mason, 22955			X		
DDG 88, USS Preble, 22996			X		
DDG 89, 22997, (New Construction)				X	
DDG 90, 23155, (New Construction)				X	
DDG 91, 23145, (New Construction)				X	
DDG 92, 23146, (New Construction)				X	
DDG 93, (New Construction)					X
DDG 94, (New Construction)					X
DDG 95, (New Construction)					X

2. Ready For Operational Use Schedule. The installation of VLA Systems on all active Air Capable Ships has been completed and the systems are in operational use. VLA Systems

installed on new construction Air Capable Ships will be ready for operational use upon completion of system certification during sea trials.

3. Time Required to Install at Operational Sites

a. Helicopter Operations Surveillance System. Time required for HOSS installation is approximately one week.

b. Wind Measuring and Indicating System. Time required for WMIS installation is approximately three months.

c. Stabilized Glide Slope Indicator. Time required for SGSI installation is approximately two months.

d. Horizon Reference Set. Time required for HRS installation is approximately one week.

e. Flight Deck Status and Signaling System. The FDSSS is installed as a package in conjunction with the HRS and requires a total of approximately one week.

f. Wave-Off Light. Time required for WOL installation is approximately four weeks.

4. Foreign Military Sales and Other Source Delivery Schedule

a. Helicopter Operations Surveillance System. Delivery of HOSS units for use aboard U.S. Coast Guard vessels was completed in FY95.

b. Wind Measuring and Indicating System. Delivery of WMIS units for use aboard U.S. Coast Guard vessels was completed in FY92.

c. Stabilized Glide Slope Indicator. All SGSI FMS deliveries were completed in FY94.

d. Horizon Reference Set

COUNTRY	PFY	FY99	FY00	FY01	FY02	FY03
Australia	6	0	0	0	0	0
Spain	6	0	1	1	1	1
Taiwan	7	1	0	0	0	0

e. Flight Deck Status and Signaling System

COUNTRY	PFY	FY99	FY00	FY01	FY02	FY03
Australia	6	0	0	0	0	0
Spain	6	0	1	1	1	1
Taiwan	7	1	0	0	0	0

f. Wave-Off Light. All WOL FMS deliveries were completed in FY94.

5. Training Device and Technical Training Equipment Delivery Schedule

a. Training Device. NA

b. Technical Training Equipment

(1) Helicopter Operations Surveillance System. NA

(2) Wind Measuring and Indicating System. Two WMISs will be required, one each at FTC San Diego and FTC Norfolk. Current plans are to remove two WMIS from decommissioned ships for use as TTE.

(3) Stabilized Glide Slope Indicator. Complete SGSI systems are installed at Naval Air Maintenance Training Group Detachment (NAMTRAGRU DET) 3040 Norfolk and NAMTRAGRU DET 3041 North Island.

(4) Horizon Reference Set. Complete HRSs are installed and available for training purposes at FTC Norfolk and FTC San Diego.

(5) Flight Deck Status and Signaling System. Complete FDSSSs are installed at NAMTRAGRU DET 3040 Norfolk and NAMTRAGRU DET 3041 North Island

(6) Wave-Off Light. Complete WOL systems are installed at NAMTRAGRU DET 3040 Norfolk and NAMTRAGRU DET 3041 North Island.

L. GOVERNMENT-FURNISHED EQUIPMENT AND CONTRACTOR-FURNISHED EQUIPMENT TRAINING REQUIREMENTS. NA

M. RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
Integrated Launch and Recovery Television Surveillance System (ILARTS)	A-50-8401/A	AIR-551	Approved Aug 84
Aircraft Launch and Recovery Equipment (ALRE) Quality Assurance/Maintenance Program	A-50-8509C/D	AIR-552	Draft Jan 95
Fresnel Lens Optical Landing System (FLOLS)	A-50-8409A/D	PMA251	Draft May 97
Landing Signal Officer (LSO) Training System	A-50-8418B/A	PMA251	Approved Jul 92
Light Airborne Multipurpose System (LAMPS) MK III	A-50-7702D/A	PMA299	Approved Nov 94
Aircraft Carrier Visual Landing Aid Systems	A-50-9202A/D	PMA251	Draft Mar 99
Assault Ship Visual Landing Aid Systems	A-50-9203A/D	PMA251	In Work May 99
AH-1W Aircraft	A-50-8520D/A	PMA267	Approved Mar 96
CH-53E Helicopter	A-50-7604F/D	PMA261	Draft Apr 95
CH-60 Fleet Combat Support Helicopter	Initial NTSP	PMA299	In Work May 99
CH-60 Multi Mission Helicopter	A-50-9902/D	PMA299	Draft Mar 99
United States Marine Corps H-1 Helicopter Upgrade Program	A-50-9602/A	PMA267	Approved Dec 97

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
MH-53E Helicopter	A-50-8417C/D	PMA261	In Work May 99
SH-60F Carrier Inner-Zone ASW Helicopter	A-50-8508D/D	PMA299	Draft Mar 99
RH-53D (Reserve) Helicopter	A-50-8601A/A	PMA261	Approved Mar 92
HH-60H Combat SAR-SW Support Helicopter	A-50-8714B/A	PMA299	Approved Dec 93
SH-2C Helicopter	A-50-9303A/A	PMA299	Approved Jun 94
SH-60R Multi-Mission Helicopter	A-50-9403/D	PMA299	In Work May 99
HH/UH-1N Aircraft	A-50-9404/A	PMA267	Approved Oct 94
H-46 Helicopter	A-50-9409/A	PMA261	Approved Jun 95
Horizon Reference Set System (HRS) Integrated Logistic Support Plan	ILSP-LR-003:A	AIR-551	Approved Jun 87
Flight Deck Status and Signaling System (FDSSS) Integrated Logistic Support Plan	NAEC-MISC-91-OR107	AIR-551	Approved Apr 82
LAMPS MK III Visual Landing Aids Integrated Logistic Support Plan	NAEC-MISC-91-OR024	AIR-551	Approved Jun 80
Helicopter Operations Surveillance System (HOSS) Integrated Logistic Support Plan	NAEC-MISC-91-OR199	AIR-551	Approved Jan 87
Wind Measuring and Indicating System Maintenance Plan	SSIED MP 002-80	NAWCAD Lakehurst	Approved Nov 80
Stabilized Glide Slope Indicator Maintenance Plan	SSIED MP 010-79	NAWCAD Lakehurst	Approved Mar 81

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
Horizon Reference Set Maintenance Plan	NAWCADLKE M84096008	NAWCAD Lakehurst	Approved Oct 96
Flight Deck Status and Signaling System Maintenance	NAWCADLKE M84096009	NAWCAD Lakehurst	Approved Oct 96
Wave-Off Light Maintenance Plan	SSIED MP 003-82	NAWCAD Lakehurst	Approved May 82

PART II - BILLET AND PERSONNEL REQUIREMENTS

The following elements are not affected by the VLA for Air Capable Ships and, therefore, are not included in Part II of this NTSP:

II.A. Billet Requirements

- II.A.2.a. Operational and Fleet Support Activity Deactivation Schedule
- II.A.2.b. Billets to be Deleted in Operational and Fleet Support Activities
- II.A.2.c. Total Billets to be Deleted in Operational and Fleet Support Activities

II.A. BILLET REQUIREMENTS

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: NAWCADLKE **DATE:** 4/1/99

ACTIVITY, UIC		PFYs	CFY00	FY01	FY02	FY03	FY04
OPERATIONAL ACTIVITIES - NAVY							
AGF3 USS La Salle	07172	1	0	0	0	0	0
AO178 USS Monongahela	20862	1	0	0	0	0	0
AO179 USS Merrimack	21007	1	0	0	0	0	0
AO186 USS Platte	21049	1	0	0	0	0	0
AOE3 USS Seattle	05848	1	0	0	0	0	0
AOE4 USS Detroit	20120	1	0	0	0	0	0
AOE6 USS Supply	21839	1	0	0	0	0	0
AOE8 USS Arctic	21907	1	0	0	0	0	0
AS33 USS Simon Lake	04697	1	0	0	0	0	0
AS39 USS Emory S Land	20635	1	0	0	0	0	0
CG47 USS Ticonderoga	21281	1	0	0	0	0	0
CG48 USS Yorktown	21225	1	0	0	0	0	0
CG51 USS Thomas S Gates	21344	1	0	0	0	0	0
CG55 USS Leyte Gulf	21388	1	0	0	0	0	0
CG56 USS San Jacinto	21389	1	0	0	0	0	0
CG58 USS Philippine Sea	21429	1	0	0	0	0	0
CG60 USS Normandy	21449	1	0	0	0	0	0
CG61 USS Monterey	21450	1	0	0	0	0	0
CG64 USS Gettysburg	21624	1	0	0	0	0	0
CG66 USS Hue City	21656	1	0	0	0	0	0
CG68 USS Anzio	21658	1	0	0	0	0	0
CG69 USS Vicksburg	21684	1	0	0	0	0	0
CG71 USS Cape St George	21828	1	0	0	0	0	0
CG72 USS Vella Gulf	21829	1	0	0	0	0	0
CGN 37 USS South Carolina	20669	1	0	0	0	0	0
CV67 USS John F Kennedy	03367	1	0	0	0	0	0
CVN65 USS Enterprise	03365	1	0	0	0	0	0
CVN68 USS Nimitz	03368	1	0	0	0	0	0
CVN69 USS Dwight D Eisenhower	03369	1	0	0	0	0	0
CVN71 USS Theodore Roosevelt	21247	1	0	0	0	0	0
CVN73 USS George Washington	21412	1	0	0	0	0	0
CVN75 USS Harry S Truman	21853	1	0	0	0	0	0
DD963 USS Spruance	20574	1	0	0	0	0	0
DD968 USS Arthur W Radford	20588	1	0	0	0	0	0
DD969 USS Peterson	20589	1	0	0	0	0	0
DD970 USS Caron	20590	1	0	0	0	0	0
DD977 USS Briscoe	20603	1	0	0	0	0	0
DD978 USS Stump	20604	1	0	0	0	0	0
DD980 USS Moosbrugger	20612	1	0	0	0	0	0
DD981 USS John Hancock	20613	1	0	0	0	0	0
DD982 USS Nicholson	20614	1	0	0	0	0	0
DD987 USS Obannon	20834	1	0	0	0	0	0

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: NAWCADLKE **DATE:** 4/1/99

ACTIVITY, UIC		PFYs	CFY00	FY01	FY02	FY03	FY04
DD988 USS Thorn	20835	1	0	0	0	0	0
DD989 USS Deyo	20836	1	0	0	0	0	0
DD997 USS Hayler	21416	1	0	0	0	0	0
DDG51 USS Arleigh Burke	21487	1	0	0	0	0	0
DDG52 USS Barry	21660	1	0	0	0	0	0
DDG55 USS Stout	21685	1	0	0	0	0	0
DDG57 USS Mitscher	21687	1	0	0	0	0	0
DDG58 USS Laboon	21820	1	0	0	0	0	0
DDG61 USS Ramage	21823	1	0	0	0	0	0
DDG64 USS Carney	21923	1	0	0	0	0	0
DDG66 USS Gonzalez	21833	1	0	0	0	0	0
DDG67 USS Cole	21941	1	0	0	0	0	0
DDG68 USS The Sullivans	21942	1	0	0	0	0	0
DDG71 USS Ross	21945	1	0	0	0	0	0
DDG72 USS Mahan	21946	1	0	0	0	0	0
DDG74 USS McFaul	21948	1	0	0	0	0	0
DDG75 USS Donald Cook	21949	1	0	0	0	0	0
DDG78 USS Porter	21952	1	0	0	0	0	0
DDG79 USS Oscar Austin	21953	1	0	0	0	0	0
DDG80 USS Roosevelt	21954	1	0	0	0	0	0
DDG81 USS Sir Winston Churchill	21955	1	0	0	0	0	0
DDG82 USS Lassen	21956	1	0	0	0	0	0
DDG84 USS Bulkley	22992	0	1	0	0	0	0
DDG86 USS Shoup	22994	0	0	1	0	0	0
DDG88 USS Preble	22996	0	0	1	0	0	0
DDG90 USS (New Construction)	23155	0	0	0	1	0	0
DDG92 USS (New Construction)	23146	0	0	0	1	0	0
FFG11 USS Clark	20964	1	0	0	0	0	0
FFG13 USS Samuel E Morison	20966	1	0	0	0	0	0
FFG14 USS Sides	20967	1	0	0	0	0	0
FFG15 USS Estocin	20968	1	0	0	0	0	0
FFG28 USS Boone	21053	1	0	0	0	0	0
FFG29 USS Stephen W Groves	21054	1	0	0	0	0	0
FFG31 USS Stark	21056	1	0	0	0	0	0
FFG32 USS John L Hall	21057	1	0	0	0	0	0
FFG36 USS Underwood	21103	1	0	0	0	0	0
FFG39 USS Doyle	21106	1	0	0	0	0	0
FFG40 USS Halyburton	21107	1	0	0	0	0	0
FFG42 USS Klakring	21109	1	0	0	0	0	0
FFG45 USS Dewert	21197	1	0	0	0	0	0
FFG47 USS Nicholas	21199	1	0	0	0	0	0
FFG49 USS Robert G Bradley	21201	1	0	0	0	0	0
FFG50 USS Taylor	21231	1	0	0	0	0	0
FFG52 USS Carr	21233	1	0	0	0	0	0
FFG53 USS Hawes	21234	1	0	0	0	0	0
FFG55 USS Elrod	21236	1	0	0	0	0	0
FFG56 USS Simpson	21350	1	0	0	0	0	0

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: NAWCADLKE **DATE:** 4/1/99

ACTIVITY, UIC		PFYs	CFY00	FY01	FY02	FY03	FY04
FFG58 USS Samuel B Roberts	21352	1	0	0	0	0	0
FFG59 USS Kauffman	21390	1	0	0	0	0	0
FFG8 USS McInerney	21032	1	0	0	0	0	0
LCC20 USS Mt Whitney	20001	1	0	0	0	0	0
LHA2 USS Saipan	20632	1	0	0	0	0	0
LHA4 USS Nassau	20725	1	0	0	0	0	0
LHD1 USS Wasp	21560	1	0	0	0	0	0
LHD3 USS Kearsarge	21700	1	0	0	0	0	0
LHD5 USS Bataan	21879	1	0	0	0	0	0
LHD7 USS Iwo Jima	23027	1	0	0	0	0	0
LPD12 USS Shreveport	07195	1	0	0	0	0	0
LPD13 USS Nashville	07196	1	0	0	0	0	0
LPD14 USS Trenton	07200	1	0	0	0	0	0
LPD15 USS Ponce	07201	1	0	0	0	0	0
LPD4 USS Austin	07175	1	0	0	0	0	0
LSD37 USS Portland	20012	1	0	0	0	0	0
LSD38 USS Pensacola	20013	1	0	0	0	0	0
LSD41 USS Whidbey Island	21218	1	0	0	0	0	0
LSD44 USS Gunston Hall	21422	1	0	0	0	0	0
LSD46 USS Tortuga	21562	1	0	0	0	0	0
LSD48 USS Ashland	21531	1	0	0	0	0	0
LSD50 USS Carter Hall	21880	1	0	0	0	0	0
LSD51 USS Oakhill	21958	1	0	0	0	0	0
LST1194 USS La Moure County	20033	1	0	0	0	0	0
AE29 USS Mount Hood	20112	1	0	0	0	0	0
AGF11 USS Coronado	07194	1	0	0	0	0	0
AO177 USS Cimarron	20861	1	0	0	0	0	0
AO180 USS Willamette	21048	1	0	0	0	0	0
AOE1 USS Sacramento	05832	1	0	0	0	0	0
AOE10 USS Bridge	21979	1	0	0	0	0	0
AOE2 USS Camden	05833	1	0	0	0	0	0
AOE7 USS Rainier	21872	1	0	0	0	0	0
ARS50 USS Safeguard	21245	1	0	0	0	0	0
ARS52 USS Salvor	21468	1	0	0	0	0	0
AS40 USS Frank Cable	20865	1	0	0	0	0	0
AS41 USS McKee	21118	1	0	0	0	0	0
CG49 USS Vincennes	21295	1	0	0	0	0	0
CG50 USS Valley Forge	21296	1	0	0	0	0	0
CG52 USS Bunker Hill	21345	1	0	0	0	0	0
CG53 USS Mobile Bay	21346	1	0	0	0	0	0
CG54 USS Antietam	21387	1	0	0	0	0	0
CG57 USS Lake Champlain	21428	1	0	0	0	0	0
CG59 USS Princeton	21447	1	0	0	0	0	0
CG62 USS Chancellorsville	21451	1	0	0	0	0	0
CG63 USS Cowpens	21623	1	0	0	0	0	0
CG65 USS Chosin	21625	1	0	0	0	0	0

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: NAWCADLKE **DATE:** 4/1/99

ACTIVITY, UIC		PFYs	CFY00	FY01	FY02	FY03	FY04
CG67 USS Shiloh	21657	1	0	0	0	0	0
CG70 USS Lake Erie	21827	1	0	0	0	0	0
CG73 USS Port Royal	21830	1	0	0	0	0	0
CGN36 USS California	20541	1	0	0	0	0	0
CV63 USS Kitty Hawk	03363	1	0	0	0	0	0
CV64 USS Constellation	03364	1	0	0	0	0	0
CVN70 USS Carl Vinson	20993	1	0	0	0	0	0
CVN72 USS Abraham Lincoln	21297	1	0	0	0	0	0
CVN74 USS John C Stennis	21847	1	0	0	0	0	0
DD964 USS Paul F Foster	20575	1	0	0	0	0	0
DD965 USS Kinkaid	20576	1	0	0	0	0	0
DD966 USS Hewitt	20586	1	0	0	0	0	0
DD967 USS Elliot	20587	1	0	0	0	0	0
DD971 USS David R Ray	20591	1	0	0	0	0	0
DD972 USS Oldendorf	20598	1	0	0	0	0	0
DD973 USS John Young	20599	1	0	0	0	0	0
DD975 USS Obrien	20601	1	0	0	0	0	0
DD985 USS Cushing	20617	1	0	0	0	0	0
DD991 USS Fife	20838	1	0	0	0	0	0
DD992 USS Fletcher	20839	1	0	0	0	0	0
DDG53 USS John Paul Jones	21313	1	0	0	0	0	0
DDG54 USS Curtis Wilbur	21640	1	0	0	0	0	0
DDG56 USS John S McCain	21686	1	0	0	0	0	0
DDG59 USS Russell	21821	1	0	0	0	0	0
DDG60 USS Paul Hamilton	21822	1	0	0	0	0	0
DDG62 USS Fitzgerald	21824	1	0	0	0	0	0
DDG63 USS Stethem	21825	1	0	0	0	0	0
DDG65 USS Benfold	21940	1	0	0	0	0	0
DDG69 USS Milius	21943	1	0	0	0	0	0
DDG70 USS Hopper	21944	1	0	0	0	0	0
DDG73 USS Decatur	21947	1	0	0	0	0	0
DDG76 USS Higgins	21950	1	0	0	0	0	0
DDG77 USS O'Kane	21951	1	0	0	0	0	0
DDG85 USS McCampbell	22993	0	1	0	0	0	0
DDG87 USS Mason	22995	0	0	1	0	0	0
DDG89 USS (New Construction)	22997	0	0	0	1	0	0
DDG91 USS (New Construction)	23145	0	0	0	1	0	0
DDG996 USS Chandler	21439	1	0	0	0	0	0
FFG12 USS George Philip	20965	1	0	0	0	0	0
FFG19 USS John A Moore	20972	1	0	0	0	0	0
FFG33 USS Jarrett	21058	1	0	0	0	0	0
FFG37 USS Crommelin	21104	1	0	0	0	0	0
FFG38 USS Curts	21105	1	0	0	0	0	0
FFG41 USS McClusky	21108	1	0	0	0	0	0
FFG43 USS Thach	21110	1	0	0	0	0	0
FFG46 USS Rentz	21198	1	0	0	0	0	0
FFG48 USS Vandegrift	21200	1	0	0	0	0	0

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: NAWCADLKE **DATE:** 4/1/99

ACTIVITY, UIC		PFYs	CFY00	FY01	FY02	FY03	FY04
FFG51 USS Gary	21232	1	0	0	0	0	0
FFG54 USS Ford	21235	1	0	0	0	0	0
FFG57 USS Rueben James	21351	1	0	0	0	0	0
FFG60 USS Rodney M Davis	21391	1	0	0	0	0	0
FFG61 USS Ingraham	21430	1	0	0	0	0	0
FFG9 USS Wadsworth	21033	1	0	0	0	0	0
LCC19 USS Blue Ridge	05840	1	0	0	0	0	0
LHA1 USS Tarawa	20550	1	0	0	0	0	0
LHA3 USS Belleau Wood	20633	1	0	0	0	0	0
LHA5 USS Peleliu	20748	1	0	0	0	0	0
LHD2 USS Essex	21533	1	0	0	0	0	0
LHD4 USS Boxer	21808	1	0	0	0	0	0
LHD6 USS Bonhomme Richard	22202	1	0	0	0	0	0
LPD10 USS Juneau	07184	1	0	0	0	0	0
LPD5 USS Ogden	07176	1	0	0	0	0	0
LPD6 USS Duluth	07177	1	0	0	0	0	0
LPD7 USS Cleveland	07181	1	0	0	0	0	0
LPD8 USS Dubuque	07182	1	0	0	0	0	0
LPD9 USS Denver	07183	1	0	0	0	0	0
LSD36 USS Anchorage	07203	1	0	0	0	0	0
LSD39 USS Mount Vernon	20014	1	0	0	0	0	0
LSD42 USS Germantown	21639	1	0	0	0	0	0
LSD45 USS Comstock	21452	1	0	0	0	0	0
LSD47 USS Rushmore	21530	1	0	0	0	0	0
LSD49 USS Harpers Ferry	21852	1	0	0	0	0	0
LSD52 USS Pearl Harbor	21959	1	0	0	0	0	0
LST1184 USS Frederick	20023	1	0	0	0	0	0
MCM Rotational Crew Alpha	39459	1	0	0	0	0	0
MCM Rotational Crew Bravo	39460	1	0	0	0	0	0
MCM Rotational Crew Charlie	39461	1	0	0	0	0	0
MCM Rotational Crew Delta	39462	1	0	0	0	0	0
MCM Rotational Crew Echo	39532	1	0	0	0	0	0
MCM Rotational Crew Foxtrot	39533	1	0	0	0	0	0
MCM Rotational Crew Golf	39534	1	0	0	0	0	0
MCM Rotational Crew Hotel	39535	1	0	0	0	0	0
MCM1 USS Avenger	21314	1	0	0	0	0	0
MCM2 USS Defender	21403	1	0	0	0	0	0
MCM3 USS Sentry	21404	1	0	0	0	0	0
MCM4 USS Champion	21405	1	0	0	0	0	0
MCM5 USS Guardian	21406	1	0	0	0	0	0
MCM6 USS Devastator	21427	1	0	0	0	0	0
MCM7 USS Patriot	21453	1	0	0	0	0	0
MCM8 USS Scout	21455	1	0	0	0	0	0
MCS12 USS Inchon	20009	1	0	0	0	0	0
TOTAL:		218	2	3	4	0	0

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: NAWCADLKE **DATE:** 4/1/99

ACTIVITY, UIC		PFYs	CFY00	FY01	FY02	FY03	FY04
FLEET SUPPORT ACTIVITIES - NAVY							
COMWHEMGRU Det Pascagoula	49127	1	0	0	0	0	0
Defense Acquisition University	64254	1	0	0	0	0	0
Defense Information School	41333	1	0	0	0	0	0
Deployable Medical Systems NAVHOSP Bethesda 0		47135	1	0	0	0	0
Fleet Combat Camera Unit Atlantic	41411	1	0	0	0	0	0
Fleet Training Center Norfolk	61797	1	0	0	0	0	0
Joint Data Systems Support	65474	1	0	0	0	0	0
Medical Treatment Facility Baltimore	46246	1	0	0	0	0	0
NAMTRAGRUDET Norfolk	66046	1	0	0	0	0	0
Naval Consolidated Brig	45610	1	0	0	0	0	0
Naval Hospital Charleston	68084	1	0	0	0	0	0
Naval Hospital Millington	60002	1	0	0	0	0	0
Naval Media Center Washington	49872	1	0	0	0	0	0
Naval War College Newport	00124	1	0	0	0	0	0
Navy and Marine Corps Intelligence Training	0387A	1	0	0	0	0	0
Navy Broadcasting Service Det Guantanamo Bay	42015	1	0	0	0	0	0
Navy Broadcasting Service Det Keflavik	42017	1	0	0	0	0	0
Navy Broadcasting Service Det La Maddalena	43545	1	0	0	0	0	0
Navy Broadcasting Service Det Rota	42022	1	0	0	0	0	0
Navy Broadcasting Service Det Sigonella	42024	1	0	0	0	0	0
Navy Broadcasting Service Det Soudha Bay	42583	1	0	0	0	0	0
Navy Broadcasting Service Fleet Support Norfolk	42582	1	0	0	0	0	0
Navy Broadcasting Service Fleet Support Sicily	45942	1	0	0	0	0	0
Navy Education and Training Center Newport	42130	1	0	0	0	0	0
Navy Experimental Diving Unit Panama City	0463A	1	0	0	0	0	0
Navy Recruiting Orientation Unit Pensacola	39088	1	0	0	0	0	0
Navy Supply Corps School Athens Georgia	42089	1	0	0	0	0	0
Shore Intermediate Maintenance Activity Mayport	32779	1	0	0	0	0	0
Shore Intermediate Maintenance Activity Norfolk	32770	1	0	0	0	0	0
Shore Intermediate Maintenance Activity Pascag.	47318	1	0	0	0	0	0
United States Atlantic Command	00066	1	0	0	0	0	0
COMUSKOREA	64765	1	0	0	0	0	0
Deployable Medical Systems NAVHOSP S. D.	46864	1	0	0	0	0	0
Expeditionary Warfare Training Group Pacific	63018	1	0	0	0	0	0
Fleet Training Center San Diego	61690	1	0	0	0	0	0
NAMTRAGRUDET San Diego	66065	1	0	0	0	0	0
Naval Media Center Det Sacramento	42315	1	0	0	0	0	0
Naval Medical Center San Diego	00259	1	0	0	0	0	0
Naval School of Dental Assisting and Technology	39354	1	0	0	0	0	0
Navy Broadcasting Service Det Diego Garcia	42012	1	0	0	0	0	0
Navy Broadcasting Service Det Sasebo	35484	1	0	0	0	0	0
Navy Broadcasting Service Fleet Support Japan	39106	1	0	0	0	0	0
Navy Broadcasting Service Fleet Support S. D.	42980	1	0	0	0	0	0
Service School Command Great Lakes	0580A	1	0	0	0	0	0
Shore Intermediate Maintenance Activity S. D.	65918	1	0	0	0	0	0
TOTAL:		45	0	0	0	0	0

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
OPERATIONAL ACTIVITIES - NAVY					
AGF3 USS La Salle, 07172					
ACDU	0	1	IC1	4758	4716
	0	1	IC2	4758	4776
	0	2	IC3	4746	
ACTIVITY TOTAL:	0	4			
AO178 USS Monongahela, 20862					
ACDU	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	1			
AO179 USS Merrimack, 21007					
ACDU	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	1			
AO186 USS Platte, 21049					
ACDU	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	1			
AOE3 USS Seattle, 05848					
ACDU	0	1	IC2	4758	
	0	1	IC3	4746	9526
ACTIVITY TOTAL:	0	2			
AOE4 USS Detroit, 20120					
ACDU	0	1	IC2	4758	
	0	1	IC3	4746	9526
ACTIVITY TOTAL:	0	2			
AOE6 USS Supply, 21839					
ACDU	0	1	IC1	4758	
	0	1	IC2	4758	4727
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
AOE8 USS Arctic, 21907					
ACDU	0	1	IC1	4758	
	0	1	IC2	4758	4727
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
AS33 USS Simon Lake, 04697					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
AS39 USS Emory S Land, 20635					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
CG47 USS Ticonderoga, 21281					
ACDU	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
CG48 USS Yorktown, 21225					
ACDU	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
CG51 USS Thomas S Gates, 21344					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
CG55 USS Leyte Gulf, 21388					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
CG56 USS San Jacinto, 21389					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
CG58 USS Philippine Sea, 21429					
ACDU	0	1	EM2	4673	
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
	0	1	IC2	4758	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
CG60 USS Normandy, 21449					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
CG61 USS Monterey, 21450					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
CG64 USS Gettysburg, 21624					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
CG66 USS Hue City, 21656					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
CG68 USS Anzio, 21658					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
CG69 USS Vicksburg, 21684					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
CG71 USS Cape St George, 21828					
ACDU	0	1	EM2	4673	
ACDU	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
CG72 USS Vella Gulf, 21829					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
CGN 37 USS South Carolina, 20669					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
CV67 USS John F Kennedy, 03367					
ACDU	0	1	IC3	4746	
	0	1	ICFN	4746	
ACTIVITY TOTAL:	0	2			
CVN65 USS Enterprise, 03365					
ACDU	0	1	IC3	4746	
	0	1	ICFN	4746	
ACTIVITY TOTAL:	0	2			
CVN68 USS Nimitz, 03368					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
CVN69 USS Dwight D Eisenhower, 03369					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
CVN71 USS Theodore Roosevelt, 21247					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
CVN73 USS George Washington, 21412					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
CVN75 USS Harry S Truman, 21853					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
DD963 USS Spruance, 20574					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	3			
DD968 USS Arthur W Radford, 20588					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	3			
DD969 USS Peterson, 20589					
ACDU	0	1	EM2	4673	
	0	2	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	4			
DD970 USS Caron, 20590					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	3			
DD977 USS Briscoe, 20603					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
DD978 USS Stump, 20604					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	3			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
DD980 USS Moosbrugger, 20612					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	3			
DD981 USS John Hancock, 20613					
ACDU	0	1	EM2	4673	
	0	2	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	4			
DD982 USS Nicholson, 20614					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
DD987 USS Obannon, 20834					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
DD988 USS Thorn, 20835					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
DD989 USS Deyo, 20836					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
DD997 USS Hayler, 21416					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
DDG51 USS Arleigh Burke, 21487					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG52 USS Barry, 21660					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG55 USS Stout, 21685					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG57 USS Mitscher, 21687					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG58 USS Laboon, 21820					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG61 USS Ramage, 21823					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG64 USS Carney, 21923					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG66 USS Gonzalez, 21833					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
DDG67 USS Cole, 21941					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG68 USS The Sullivans, 21942					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG71 USS Ross, 21945					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG72 USS Mahan, 21946					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG74 USS McFaul, 21948					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG75 USS Donald Cook, 21949					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG78 USS Porter, 21952					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG79 USS Oscar Austin, 21953					
ACDU	0	1	EM1	4673	
	0	1	IC2	4758	4746
ACTIVITY TOTAL:	0	2			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
DDG80 USS Roosevelt, 21954					
ACDU	0	1	EM1	4673	
	0	1	IC2	4758	4746
ACTIVITY TOTAL:	0	2			
DDG81 USS Sir Winston Churchill, 21955,					
ACDU	0	1	EM1	4673	
	0	1	IC2	4758	4746
ACTIVITY TOTAL:	0	2			
DDG82 USS Lassen, 21956					
ACDU	0	1	EM1	4673	
	0	1	IC2	4758	4746
ACTIVITY TOTAL:	0	2			
DDG84 USS Bulkley, 22992, FY00 Increment					
ACDU	0	1	EM1	4673	
	0	1	IC2	4758	4746
ACTIVITY TOTAL:	0	2			
DDG86 USS Shoup, 22994, FY01 Increment					
ACDU	0	1	EM1	4673	
	0	1	IC2	4758	4746
ACTIVITY TOTAL:	0	2			
DDG88 USS Preble, 22996, FY01 Increment					
ACDU	0	1	EM1	4673	
	0	1	IC2	4758	4746
ACTIVITY TOTAL:	0	2			
DDG90 USS (New Construction), 23155, FY02 Increment					
ACDU	0	1	EM1	4673	
	0	1	IC2	4758	4746
ACTIVITY TOTAL:	0	2			
DDG92 USS (New Construction), 23146, FY02 Increment					
ACDU	0	1	EM1	4673	
	0	1	IC2	4758	4746
ACTIVITY TOTAL:	0	2			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
FFG11 USS Clark, 20964					
ACDU	0	1	IC1	4758	4727
	0	2	IC2	4746	4703
TAR	0	1	IC1	4758	4727
ACTIVITY TOTAL:	0	4			
FFG13 USS Samuel E Morison, 20966					
ACDU	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
TAR	0	1	IC1	4758	4727
ACTIVITY TOTAL:	0	3			
FFG14 USS Sides, 20967					
ACDU	0	1	IC2	4746	4703
TAR	0	1	IC1	4758	4727
ACTIVITY TOTAL:	0	2			
FFG15 USS Estocin, 20968					
ACDU	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
TAR	0	1	IC1	4758	4727
ACTIVITY TOTAL:	0	3			
FFG28 USS Boone, 21053					
ACDU	0	1	EM2	4673	
	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
TAR	0	1	IC1	4758	4727
ACTIVITY TOTAL:	0	4			
FFG29 USS Stephen W Groves, 21054					
ACDU	0	1	EM2	4673	
	0	1	IC2	4746	4703
TAR	0	1	IC1	4758	4727
ACTIVITY TOTAL:	0	3			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
FFG31 USS Stark, 21056					
ACDU	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
ACTIVITY TOTAL:	0	2			
FFG32 USS John L Hall, 21057					
ACDU	0	1	EM2	4673	
	0	2	IC1	4758	4727
	0	1	IC2	4746	4703
TAR	0	1	IC1	4758	4727
ACTIVITY TOTAL:	0	5			
FFG36 USS Underwood, 21103					
ACDU	0	1	EM2	4673	
	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
ACTIVITY TOTAL:	0	3			
FFG39 USS Doyle, 21106					
ACDU	0	1	EM2	4673	
	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
TAR	0	1	IC1	4758	4727
ACTIVITY TOTAL:	0	4			
FFG40 USS Halyburton, 21107					
ACDU	0	1	EM2	4673	
	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
TAR	0	1	IC1	4758	4727
ACTIVITY TOTAL:	0	4			
FFG42 USS Klakring, 21109					
ACDU	0	1	EM2	4673	
	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
TAR	0	1	IC1	4758	4727
ACTIVITY TOTAL:	0	4			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
FFG45 USS Dewert, 21197					
ACDU	0	1	EM2	4673	
	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
TAR	0	1	IC1	4758	4727
ACTIVITY TOTAL:	0	4			
FFG47 USS Nicholas, 21199					
ACDU	0	1	EM2	4673	
	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
ACTIVITY TOTAL:	0	3			
FFG49 USS Robert G Bradley, 21201					
ACDU	0	1	EM2	4673	
	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
TAR	0	1	IC1	4758	4727
ACTIVITY TOTAL:	0	4			
FFG50 USS Taylor, 21231					
ACDU	0	1	EM2	4673	
	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
ACTIVITY TOTAL:	0	3			
FFG52 USS Carr, 21233					
ACDU	0	1	EM2	4673	
	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
ACTIVITY TOTAL:	0	3			
FFG53 USS Hawes, 21234					
ACDU	0	1	EM2	4673	
	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
ACTIVITY TOTAL:	0	3			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
FFG55 USS Elrod, 21236					
ACDU	0	1	EM2	4673	
	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
ACTIVITY TOTAL:	0	3			
FFG56 USS Simpson, 21350					
ACDU	0	1	EM2	4673	
	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
TAR	0	1	IC1	4758	4727
ACTIVITY TOTAL:	0	4			
FFG58 USS Samuel B Roberts, 21352					
ACDU	0	1	EM2	4673	
	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
TAR	0	1	IC1	4758	4727
ACTIVITY TOTAL:	0	4			
FFG59 USS Kauffman, 21390					
ACDU	0	1	EM2	4673	
	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
ACTIVITY TOTAL:	0	3			
FFG8 USS McInerney, 21032					
ACDU	0	1	EM2	4673	
	0	2	IC1	4758	4727
	0	1	IC2	4746	4703
ACTIVITY TOTAL:	0	4			
LCC20 USS Mt Whitney, 20001					
ACDU	0	2	IC1	4758	
	0	2	IC2	4758	9527
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	5			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
LHA2 USS Saipan, 20632					
ACDU	0	1	IC1	4758	4728
	0	1	IC2	4755	4758
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
LHA4 USS Nassau, 20725					
ACDU	0	1	IC1	4758	4728
	0	1	IC2	4755	4758
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
LHD1 USS Wasp, 21560					
ACDU	0	1	IC1	4758	4728
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
LHD3 USS Kearsarge, 21700					
ACDU	0	1	IC1	4758	4728
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
LHD5 USS Bataan, 21879					
ACDU	0	1	IC1	4758	4728
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
LHD7 USS Iwo Jima, 23027					
ACDU	0	1	IC1	4758	4728
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
LPD12 USS Shreveport, 07195					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
LPD13 USS Nashville, 07196					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
LPD14 USS Trenton, 07200					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
LPD15 USS Ponce, 07201					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
LPD4 USS Austin, 07175					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
LSD37 USS Portland, 20012					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
LSD38 USS Pensacola, 20013					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
LSD41 USS Whidbey Island, 21218					
ACDU	0	1	IC1	4758	4727
	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	2			
LSD44 USS Gunston Hall, 21422					
ACDU	0	1	IC1	4758	4727
	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	2			
LSD46 USS Tortuga, 21562					
ACDU	0	1	IC1	4758	4727
	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	2			
LSD48 USS Ashland, 21531					
ACDU	0	1	IC1	4758	4727
	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	2			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
LSD50 USS Carter Hall, 21880					
ACDU	0	1	IC1	4758	4727
	0	1	IC2	4755	4758
	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	3			
LSD51 USS Oakhill, 21958					
ACDU	0	1	IC1	4758	4727
	0	1	IC2	4755	4758
	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	3			
LST1194 USS La Moure County, 20033					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
AE29 USS Mount Hood, 20112					
ACDU	0	1	IC3	4746	9526
ACTIVITY TOTAL:	0	1			
AGF11 USS Coronado, 07194					
ACDU	0	1	IC1	4721	4758
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
AO177 USS Cimarron, 20861					
ACDU	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	1			
AO180 USS Willamette, 21048					
ACDU	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	1			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
AOE1 USS Sacramento, 05832					
ACDU	0	1	IC2	4758	
	0	1	IC3	4746	9526
ACTIVITY TOTAL:	0	2			
AOE10 USS Bridge, 21979					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
AOE2 USS Camden, 05833					
ACDU	0	1	IC2	4758	4723
	0	1	IC3	4746	9526
ACTIVITY TOTAL:	0	2			
AOE7 USS Rainier, 21872					
ACDU	0	1	IC1	4758	
	0	1	IC2	4758	4727
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
ARS50 USS Safeguard, 21245					
ACDU	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	1			
ARS52 USS Salvor, 21468					
ACDU	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	1			
AS40 USS Frank Cable, 20865					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
AS41 USS McKee, 21118					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
CG49 USS Vincennes, 21295					
ACDU	0	1	EM2	4673	
ACDU	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
CG50 USS Valley Forge, 21296					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
CG52 USS Bunker Hill, 21345					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
CG53 USS Mobile Bay, 21346					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
CG54 USS Antietam, 21387					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
CG57 USS Lake Champlain, 21428					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
CG59 USS Princeton, 21447					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
CG62 USS Chancellorsville, 21451					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
CG63 USS Cowpens, 21623					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
CG65 USS Chosin, 21625					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
CG67 USS Shiloh, 21657					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	9612
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
CG70 USS Lake Erie, 21827					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
CG73 USS Port Royal, 21830					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
CGN36 USS California, 20541					
ACDU	0	2	IC2	4758	4716
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
CV63 USS Kitty Hawk, 03363					
ACDU	0	1	IC3	4746	
	0	1	ICFN	4746	
ACTIVITY TOTAL:	0	2			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
CV64 USS Constellation, 03364					
ACDU	0	1	IC3	4746	
	0	1	ICFN	4746	
ACTIVITY TOTAL:	0	2			
CVN70 USS Carl Vinson, 20993					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
CVN72 USS Abraham Lincoln, 21297					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
CVN74 USS John C Stennis, 21847					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
DD964 USS Paul F Foster, 20575					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	3			
DD965 USS Kinkaid, 20576					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
DD966 USS Hewitt, 20586					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	3			
DD967 USS Elliot, 20587					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
DD971 USS David R Ray, 20591					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
DD972 USS Oldendorf, 20598					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	3			
DD973 USS John Young, 20599					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	3			
DD975 USS O'Brien, 20601					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	1416
ACTIVITY TOTAL:	0	3			
DD985 USS Cushing, 20617					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
DD991 USS Fife, 20838					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
DD992 USS Fletcher, 20839					
ACDU	0	1	EM2	4673	
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
DDG53 USS John Paul Jones, 21313					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG54 USS Curtis Wilbur, 21640					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG56 USS John S McCain, 21686					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG59 USS Russell, 21821					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG60 USS Paul Hamilton, 21822					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG62 USS Fitzgerald, 21824					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	2			
DDG63 USS Stethem, 21825					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
DDG65 USS Benfold, 21940					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG69 USS Milius, 21943					
ACDU	0	1	IC1	4758	9612
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG70 USS Hopper, 21944					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG73 USS Decatur, 21947					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG76 USS Higgins, 21950					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG77 USS O'Kane, 21951					
ACDU	0	1	IC1	4758	4728
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
DDG85 USS McCampbell, 22993, FY00 Increment					
ACDU	0	1	EM1	4673	
	0	1	IC2	4758	4746
ACTIVITY TOTAL:	0	2			
DDG87 USS Mason, 22995, FY01 Increment					
ACDU	0	1	EM1	4673	
	0	1	IC2	4758	4746
ACTIVITY TOTAL:	0	2			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
DDG89 USS (New Construction), 22997, FY02 Increment					
ACDU	0	1	EM1	4673	
	0	1	IC2	4758	4746
ACTIVITY TOTAL:	0	2			
DDG91 USS (New Construction), 23145, FY02 Increment					
ACDU	0	1	EM1	4673	
	0	1	IC2	4758	4746
ACTIVITY TOTAL:	0	2			
DDG996 USS Chandler, 21439					
ACDU	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
FFG12 USS George Philip, 20965					
ACDU	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
TAR	0	1	IC1	4758	4727
ACTIVITY TOTAL:	0	3			
FFG19 USS John A Moore, 20972					
ACDU	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
TAR	0	1	IC1	4758	4727
ACTIVITY TOTAL:	0	3			
FFG33 USS Jarrett, 21058					
ACDU	0	1	EM2	4673	
	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
ACTIVITY TOTAL:	0	3			
FFG37 USS Crommelin, 21104					
ACDU	0	1	EM2	4673	
	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
ACTIVITY TOTAL:	0	3			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
FFG38 USS Curts, 21105					
ACDU	0	1	EM2	4673	
	0	1	IC2	4746	4703
TAR	0	1	IC1	4758	4727
ACTIVITY TOTAL:	0	3			
FFG41 USS McClusky, 21108					
ACDU	0	1	EM2	4673	
	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
ACTIVITY TOTAL:	0	3			
FFG43 USS Thach, 21110					
ACDU	0	1	EM2	4673	
	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
ACTIVITY TOTAL:	0	3			
FFG46 USS Rentz, 21198					
ACDU	0	1	EM2	4673	
	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
ACTIVITY TOTAL:	0	3			
FFG48 USS Vandegrift, 21200					
ACDU	0	1	EM2	4673	
	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
ACTIVITY TOTAL:	0	3			
FFG51 USS Gary, 21232					
ACDU	0	1	EM2	4673	
	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
ACTIVITY TOTAL:	0	3			
FFG54 USS Ford, 21235					
ACDU	0	1	EM2	4673	
	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
ACTIVITY TOTAL:	0	3			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
FFG57 USS Rueben James, 21351					
ACDU	0	1	EM2	4673	
	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
ACTIVITY TOTAL:	0	3			
FFG60 USS Rodney M Davis, 21391					
ACDU	0	1	EM2	4673	
	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
ACTIVITY TOTAL:	0	3			
FFG61 USS Ingraham, 21430					
ACDU	0	1	EM2	4673	
	0	1	IC1	4758	4727
	0	1	IC2	4746	4703
ACTIVITY TOTAL:	0	3			
FFG9 USS Wadsworth, 21033					
ACDU	0	1	IC2	4746	4703
TAR	0	1	IC1	4758	4727
ACTIVITY TOTAL:	0	2			
LCC19 USS Blue Ridge, 05840					
ACDU	0	1	IC1	4758	4721
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
LHA1 USS Tarawa, 20550					
ACDU	0	1	IC1	4758	4728
	0	1	IC2	4755	4758
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
LHA3 USS Belleau Wood, 20633					
ACDU	0	1	IC1	4758	4728
	0	1	IC2	4755	4758
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
LHA5 USS Peleliu, 20748					
ACDU	0	1	IC1	4758	4728
	0	1	IC2	4755	4758
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
LHD2 USS Essex, 21533					
ACDU	0	1	IC1	4758	4728
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
LHD4 USS Boxer, 21808					
ACDU	0	1	IC1	4758	4728
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
LHD6 USS Bonhomme Richard, 22202					
ACDU	0	1	IC1	4758	4728
	0	1	IC2	4758	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
LPD10 USS Juneau, 07184					
ACDU	0	1	IC1	4758	4723
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
LPD5 USS Ogden, 07176					
ACDU	0	2	IC1	4758	4723
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	3			
LPD6 USS Duluth, 07177					
ACDU	0	1	IC1	4758	4723
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
LPD7 USS Cleveland, 07181					
ACDU	0	1	IC1	4758	4723
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
LPD8 USS Dubuque, 07182					
ACDU	0	1	IC1	4758	4723
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
LPD9 USS Denver, 07183					
ACDU	0	1	IC1	4758	4723
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
LSD36 USS Anchorage, 07203					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
LSD39 USS Mount Vernon, 20014					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
LSD42 USS Germantown, 21639					
ACDU	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	1			
LSD45 USS Comstock, 21452					
ACDU	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	1			
LSD47 USS Rushmore, 21530					
ACDU	0	1	IC2	4755	4758
	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	2			
LSD49 USS Harpers Ferry, 21852					
ACDU	0	1	IC1	4758	4727
	0	1	IC2	4755	4758
	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	3			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
LSD52 USS Pearl Harbor, 21959					
ACDU	0	1	IC1	4758	4727
	0	1	IC2	4755	4758
	0	1	IC3	4746	9527
ACTIVITY TOTAL:	0	3			
LST1184 USS Frederick, 20023					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
MCM Rotational Crew Alpha, 39459					
ACDU	0	1	IC3	4756	4746
ACTIVITY TOTAL:	0	1			
MCM Rotational Crew Bravo, 39460					
ACDU	0	1	IC3	4756	4746
ACTIVITY TOTAL:	0	1			
MCM Rotational Crew Charlie, 39461					
ACDU	0	1	IC3	4756	4746
ACTIVITY TOTAL:	0	1			
MCM Rotational Crew Delta, 39462					
ACDU	0	1	IC3	4756	4746
ACTIVITY TOTAL:	0	1			
MCM Rotational Crew Echo, 39532					
ACDU	0	1	IC3	4756	4746
ACTIVITY TOTAL:	0	1			
MCM Rotational Crew Foxtrot, 39533					
ACDU	0	1	IC3	4756	4746
ACTIVITY TOTAL:	0	1			
MCM Rotational Crew Golf, 39534					
ACDU	0	1	IC3	4756	4746
ACTIVITY TOTAL:	0	1			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
MCM Rotational Crew Hotel, 39535					
ACDU	0	1	IC3	4756	4746
ACTIVITY TOTAL:	0	1			
MCM1 USS Avenger, 21314					
ACDU	0	1	IC3	4756	4746
ACTIVITY TOTAL:	0	1			
MCM2 USS Defender, 21403					
ACDU	0	1	IC3	4756	4746
ACTIVITY TOTAL:	0	1			
MCM3 USS Sentry, 21404					
ACDU	0	1	IC3	4756	4746
ACTIVITY TOTAL:	0	1			
MCM4 USS Champion, 21405					
ACDU	0	1	IC3	4756	4746
ACTIVITY TOTAL:	0	1			
MCM5 USS Guardian, 21406					
ACDU	0	1	IC3	4756	4746
ACTIVITY TOTAL:	0	1			
MCM6 USS Devastator, 21427					
ACDU	0	1	IC3	4756	4746
ACTIVITY TOTAL:	0	1			
MCM7 USS Patriot, 21453					
ACDU	0	1	IC3	4756	4746
ACTIVITY TOTAL:	0	1			
MCM8 USS Scout, 21455					
ACDU	0	1	IC3	4756	4746
ACTIVITY TOTAL:	0	1			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
MCS12 USS Inchon, 20009					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
FLEET SUPPORT ACTIVITIES - NAVY					
COMWHEMGRU Det Pascagoula, 49127					
ACDU	0	1	EM2	4673	
ACTIVITY TOTAL:	0	1			
Defense Acquisition University, 64254					
ACDU	0	3	IC2	4746	
ACTIVITY TOTAL:	0	3			
Defense Information School, 41333					
ACDU	0	1	IC1	4746	
	0	2	IC1	4746	9502
ACTIVITY TOTAL:	0	3			
Deployable Medical Systems NAVHOSP Bethesda, 47135					
ACDU	0	1	IC1	4758	
ACTIVITY TOTAL:	0	1			
Fleet Combat Camera Unit Atlantic, 41411					
ACDU	0	1	IC2	4746	
ACTIVITY TOTAL:	0	1			
Fleet Training Center Norfolk, 61797					
ACDU	0	1	EMC	4673	9502
ACTIVITY TOTAL:	0	1			
Joint Data Systems Support, 65474					
ACDU	0	1	ICC	4746	
	0	1	IC1	4746	
ACTIVITY TOTAL:	0	2			
Medical Treatment Facility Baltimore, 46246					
ACDU	0	1	IC1	4758	
ACTIVITY TOTAL:	0	1			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
NAMTRAGRUDET Norfolk, 66046					
ACDU	0	2	IC1	4758	9502
ACTIVITY TOTAL:	0	2			
Naval Consolidated Brig, 45610					
ACDU	0	1	IC2	4746	9575
ACTIVITY TOTAL:	0	1			
Naval Hospital Charleston, 68084					
ACDU	0	1	ICC	4746	
	0	6	IC2	4746	
ACTIVITY TOTAL:	0	7			
Naval Hospital Millington, 60002					
ACDU	0	1	IC2	4746	
ACTIVITY TOTAL:	0	1			
Naval Media Center Washington, 49872					
ACDU	0	1	IC1	4746	
	0	3	IC2	4746	
	0	2	IC3	4746	
ACTIVITY TOTAL:	0	6			
Naval War College Newport, 00124					
ACDU	0	1	IC1	4746	
	0	2	IC2	4746	
ACTIVITY TOTAL:	0	3			
Navy and Marine Corps Intelligence Training Center, 0387A					
ACDU	0	2	IC1	4746	9502
	0	2	IC2	4746	9502
ACTIVITY TOTAL:	0	4			
Navy Broadcasting Service Det Guantanamo Bay, 42015					
ACDU	0	1	IC2	4746	
ACTIVITY TOTAL:	0	1			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
Navy Broadcasting Service Det Keflavik, 42017					
ACDU	0	1	IC2	4746	
	0	1	IC3	4746	
ACTIVITY TOTAL:	0	2			
Navy Broadcasting Service Det La Maddalena, 43545					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
Navy Broadcasting Service Det Rota, 42022					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
Navy Broadcasting Service Det Sigonella, 42024					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
Navy Broadcasting Service Det Soudha Bay, 42583					
ACDU	0	1	IC2	4746	
ACTIVITY TOTAL:	0	1			
Navy Broadcasting Service Fleet Support Norfolk, 42582					
ACDU	0	1	IC1	4746	
	0	4	IC2	4746	
ACTIVITY TOTAL:	0	5			
Navy Broadcasting Service Fleet Support Sicily, 45942					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
Navy Education and Training Center Newport, 42130					
ACDU	0	1	ET2	4746	9526
	0	1	IC2	4746	9526
ACTIVITY TOTAL:	0	2			
Navy Experimental Diving Unit Panama City, 0463A					
ACDU	0	1	ICC	4746	
ACTIVITY TOTAL:	0	1			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
Navy Recruiting Orientation Unit Pensacola, 39088					
ACDU	0	1	IC1	4746	
ACTIVITY TOTAL:	0	1			
Navy Supply Corps School Athens Georgia, 42089					
ACDU	0	2	IC1	4746	
ACTIVITY TOTAL:	0	2			
Shore Intermediate Maintenance Activity Mayport, 32779					
ACDU	0	1	EM1	4673	
ACTIVITY TOTAL:	0	1			
Shore Intermediate Maintenance Activity Norfolk, 32770					
ACDU	0	1	EMC	4673	
	0	2	EM1	4673	
	0	4	EM2	4673	
ACTIVITY TOTAL:	0	7			
Shore Intermediate Maintenance Activity Pascagula, 47318					
ACDU	0	1	EM2	4673	
ACTIVITY TOTAL:	0	1			
United States Atlantic Command, 00066					
ACDU	0	1	IC1	4746	
	0	4	IC2	4746	
ACTIVITY TOTAL:	0	5			
COMUSKOREA, 64765					
ACDU	0	1	ICC	4746	
ACTIVITY TOTAL:	0	1			
Deployable Medical Systems NAVHOSP S. D., 46864					
ACDU	0	1	IC1	4758	
ACTIVITY TOTAL:	0	1			
Expeditionary Warfare Training Group Pacific, 63018					
ACDU	0	1	IC2	4746	
ACTIVITY TOTAL:	0	1			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
Fleet Training Center San Diego, 61690					
ACDU	0	3	EM1	4673	9502
	0	1	IC1	4746	
ACTIVITY TOTAL:	0	4			
NAMTRAGRUDET San Diego, 66065					
ACDU	0	1	IC1	4758	9502
ACTIVITY TOTAL:	0	1			
Naval Media Center Det Sacramento, 42315					
ACDU	0	1	IC2	4746	
	0	2	IC3	4746	
ACTIVITY TOTAL:	0	3			
Naval Medical Center San Diego, 00259					
ACDU	0	1	IC1	4746	
ACTIVITY TOTAL:	0	1			
Naval School of Dental Assisting and Technology, 39354					
ACDU	0	1	IC1	4758	
ACTIVITY TOTAL:	0	1			
Navy Broadcasting Service Det Diego Garcia, 42012					
ACDU	0	1	IC3	4746	
ACTIVITY TOTAL:	0	1			
Navy Broadcasting Service Det Sasebo, 35484					
ACDU	0	2	IC3	4746	
ACTIVITY TOTAL:	0	2			
Navy Broadcasting Service Fleet Support Japan, 39106					
ACDU	0	2	IC2	4746	9502
	0	2	IC3	4746	
ACTIVITY TOTAL:	0	4			
Navy Broadcasting Service Fleet Support San Diego, 42980					
ACDU	0	2	IC2	4746	
ACTIVITY TOTAL:	0	2			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
Service School Command Great Lakes, 0580A					
ACDU	0	3	IC1	4746	9502
ACTIVITY TOTAL:	0	3			
Shore Intermediate Maintenance Activity San Diego, 65918					
ACDU	0	1	EM1	4673	
	0	1	EM2	4673	
ACTIVITY TOTAL:	0	2			

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS		PFYs OFF	PFYs ENL	CFY00 OFF	CFY00 ENL	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL
NAVY OPERATIONAL ACTIVITIES - ACDU														
EM1	4673		4		2		3		4		0		0	
EM2	4673		79		0		0		0		0		0	
IC1	4721	4758	1		0		0		0		0		0	
IC1	4758		5		0		0		0		0		0	
IC1	4758	4716	1		0		0		0		0		0	
IC1	4758	4721	1		0		0		0		0		0	
IC1	4758	4723	7		0		0		0		0		0	
IC1	4758	4727	44		0		0		0		0		0	
IC1	4758	4728	39		0		0		0		0		0	
IC1	4758	9612	1		0		0		0		0		0	
IC2	4746		1		0		0		0		0		0	
IC2	4746	4703	39		0		0		0		0		0	
IC2	4755	4758	10		0		0		0		0		0	
IC2	4758		63		0		0		0		0		0	
IC2	4758	4716	2		0		0		0		0		0	
IC2	4758	4723	1		0		0		0		0		0	
IC2	4758	4727	3		0		0		0		0		0	
IC2	4758	4746	4		2		3		4		0		0	
IC2	4758	4776	1		0		0		0		0		0	
IC2	4758	9527	2		0		0		0		0		0	
IC2	4758	9612	1		0		0		0		0		0	
IC3	4746		124		0		0		0		0		0	
IC3	4746	1416	12		0		0		0		0		0	
IC3	4746	9526	5		0		0		0		0		0	
IC3	4746	9527	19		0		0		0		0		0	
IC3	4756	4746	16		0		0		0		0		0	
ICFN	4746		4		0		0		0		0		0	
NAVY OPERATIONAL ACTIVITIES - TAR														
IC1	4758	4727	18		0		0		0		0		0	
NAVY FLEET SUPPORT ACTIVITIES - ACDU														
EMC	4673		1		0		0		0		0		0	
EMC	4673	9502	1		0		0		0		0		0	
EM1	4673		4		0		0		0		0		0	
EM1	4673	9502	3		0		0		0		0		0	
EM2	4673		7		0		0		0		0		0	
ET2	4746	9526	1		0		0		0		0		0	
ICC	4746		4		0		0		0		0		0	
IC1	4746		11		0		0		0		0		0	
IC1	4746	9502	7		0		0		0		0		0	
IC1	4758		4		0		0		0		0		0	
IC1	4758	9502	3		0		0		0		0		0	
IC2	4746		31		0		0		0		0		0	
IC2	4746	9502	4		0		0		0		0		0	

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY00 OFF	CFY00 ENL	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL
IC2	4746 9526		1		0		0		0		0		0
IC2	4746 9575		1		0		0		0		0		0
IC3	4746		14		0		0		0		0		0
SUMMARY TOTALS:													
NAVY OPERATIONAL ACTIVITIES - ACDU			489		4		6		8		0		0
NAVY OPERATIONAL ACTIVITIES - TAR			18		0		0		0		0		0
NAVY FLEET SUPPORT ACTIVITIES - ACDU			97		0		0		0		0		0
GRAND TOTALS:													
NAVY - ACDU			586		4		6		8		0		0
NAVY - TAR			18		0		0		0		0		0

II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS

DESIG RATING	PNEC/SNEC PMOS/SMOS		PFYs OFF	PFYs ENL	CFY00 OFF	CFY00 ENL	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL
TRAINING ACTIVITY, LOCATION, UIC: FTC Norfolk, NOB Norfolk, Virginia, 61797														
INSTRUCTOR BILLETS														
ACDU														
EMC	4673	9502	0	1	0	1	0	1	0	1	0	1	0	1
EM1	4673	9502	0	1	0	1	0	1	0	1	0	1	0	1
IC1		9502	0	2	0	2	0	2	0	2	0	2	0	2
TOTAL:			0	4	0	4	0	4	0	4	0	4	0	4
TRAINING ACTIVITY, LOCATION, UIC: FTC San Diego, NTC San Diego, California, 61690														
INSTRUCTOR BILLETS														
ACDU														
EMC	4673	9502	0	1	0	1	0	1	0	1	0	1	0	1
EM1	4673	9502	0	1	0	1	0	1	0	1	0	1	0	1
IC1		9502	0	2	0	2	0	2	0	2	0	2	0	2
TOTAL:			0	4	0	4	0	4	0	4	0	4	0	4
TRAINING ACTIVITY, LOCATION, UIC: NAMTRAGRUDET 3040, NOB Norfolk, Virginia, 66046														
INSTRUCTOR BILLETS														
ACDU														
IC1	4758	9502	0	2	0	2	0	2	0	2	0	2	0	2
TOTAL:			0	2	0	2	0	2	0	2	0	2	0	2
TRAINING ACTIVITY, LOCATION, UIC: NAMTRAGRUDET 3041, NAS North Island, California, 66065														
INSTRUCTOR BILLETS														
ACDU														
IC1	4758	9502	0	2	0	2	0	2	0	2	0	2	0	2
TOTAL:			0	2	0	2	0	2	0	2	0	2	0	2
TRAINING ACTIVITY, LOCATION, UIC: SSC Great Lakes, NTC Great Lakes, Illinois, 30626														
INSTRUCTOR BILLETS														
ACDU														
IC1	4746	9502	0	3	0	3	0	3	0	3	0	3	0	3
IC2	4746	9502	0	3	0	3	0	3	0	3	0	3	0	3
TOTAL:			0	6	0	6	0	6	0	6	0	6	0	6

II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS

ACTIVITY, LOCATION, UIC	USN/ USMC	PFYs OFF	PFYs ENL	CFY00 OFF	CFY00 ENL	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL
FTC Norfolk, NOB Norfolk, Virginia, 61797													
	NAVY		6.3		6.3		6.3		6.4		6.3		6.3
NAMTRAGRUDET 3040, NOB Norfolk, Virginia, 66046													
	NAVY		1.6		1.6		1.7		1.7		1.6		1.6
SSC Great Lakes, NTC Great Lakes, Illinois, 30626													
	NAVY		30.3		30.3		30.3		30.3		30.3		30.3
FTC San Diego, NTC San Diego, California, 61690													
	NAVY		5.8		5.8		5.9		6.0		5.9		5.9
NAMTRAGRUDET 3041, NAS North Island, California, 66065													
	NAVY		1.1		1.1		1.1		1.1		1.1		1.1
SUMMARY TOTALS:													
	NAVY		45.1		45.2		45.3		45.5		45.5		45.5
GRAND TOTALS:													
			45.1		45.2		45.3		45.5		45.5		45.5

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY00 +/-	CFY00 CUM	FY01 +/-	FY01 CUM	FY02 +/-	FY02 CUM	FY03 +/-	FY03 CUM	FY04 +/-	FY04 CUM
a. OFFICER - USN			Not Applicable										
b. ENLISTED - USN													
Operational Billets ACDU and TAR													
EM1	4673		4	2	6	3	9	4	13	0	13	0	13
EM2	4673		79	0	79	0	79	0	79	0	79	0	79
IC1	4721	4758	1	0	1	0	1	0	1	0	1	0	1
IC1	4758		5	0	5	0	5	0	5	0	5	0	5
IC1	4758	4716	1	0	1	0	1	0	1	0	1	0	1
IC1	4758	4721	1	0	1	0	1	0	1	0	1	0	1
IC1	4758	4723	7	0	7	0	7	0	7	0	7	0	7
IC1	4758	4727	62	0	62	0	62	0	62	0	62	0	62
IC1	4758	4728	39	0	39	0	39	0	39	0	39	0	39
IC1	4758	9612	1	0	1	0	1	0	1	0	1	0	1
IC2	4746		1	0	1	0	1	0	1	0	1	0	1
IC2	4746	4703	39	0	39	0	39	0	39	0	39	0	39
IC2	4755	4758	10	0	10	0	10	0	10	0	10	0	10
IC2	4758		63	0	63	0	63	0	63	0	63	0	63
IC2	4758	4716	2	0	2	0	2	0	2	0	2	0	2
IC2	4758	4723	1	0	1	0	1	0	1	0	1	0	1
IC2	4758	4727	3	0	3	0	3	0	3	0	3	0	3
IC2	4758	4746	4	2	6	3	9	4	13	0	13	0	13
IC2	4758	4776	1	0	1	0	1	0	1	0	1	0	1
IC2	4758	9527	2	0	2	0	2	0	2	0	2	0	2
IC2	4758	9612	1	0	1	0	1	0	1	0	1	0	1
IC3	4746		124	0	124	0	124	0	124	0	124	0	124
IC3	4746	1416	12	0	12	0	12	0	12	0	12	0	12
IC3	4746	9526	5	0	5	0	5	0	5	0	5	0	5
IC3	4746	9527	19	0	19	0	19	0	19	0	19	0	19
IC3	4756	4746	16	0	16	0	16	0	16	0	16	0	16
ICFN	4746		4	0	4	0	4	0	4	0	4	0	4
IC			162	0	162	0	162	0	162	0	162	0	162
Fleet Support Billets ACDU and TAR													
EMC	4673		1	0	1	0	1	0	1	0	1	0	1

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY00 +/-	CFY00 CUM	FY01 +/-	FY01 CUM	FY02 +/-	FY02 CUM	FY03 +/-	FY03 CUM	FY04 +/-	FY04 CUM
EMC	4673	9502	1	0	1	0	1	0	1	0	1	0	1
EM1	4673		4	0	4	0	4	0	4	0	4	0	4
EM1	4673	9502	3	0	3	0	3	0	3	0	3	0	3
EM2	4673		7	0	7	0	7	0	7	0	7	0	7
ET2	4746	9526	1	0	1	0	1	0	1	0	1	0	1
ICC	4746		4	0	4	0	4	0	4	0	4	0	4
IC1	4746		11	0	11	0	11	0	11	0	11	0	11
IC1	4746	9502	7	0	7	0	7	0	7	0	7	0	7
IC1	4758		4	0	4	0	4	0	4	0	4	0	4
IC1	4758	9502	3	0	3	0	3	0	3	0	3	0	3
IC2	4746		31	0	31	0	31	0	31	0	31	0	31
IC2	4746	9502	4	0	4	0	4	0	4	0	4	0	4
IC2	4746	9526	1	0	1	0	1	0	1	0	1	0	1
IC2	4746	9575	1	0	1	0	1	0	1	0	1	0	1
IC3	4746		14	0	14	0	14	0	14	0	14	0	14
Staff Billets ACDU and TAR													
EMC	4673	9502	2	0	2	0	2	0	2	0	2	0	2
EM1	4673	9502	2	0	2	0	2	0	2	0	2	0	2
IC1		9502	4	0	4	0	4	0	4	0	4	0	4
IC1	4746	9502	3	0	3	0	3	0	3	0	3	0	3
IC1	4758	9502	4	0	4	0	4	0	4	0	4	0	4
IC2	4746	9502	3	0	3	0	3	0	3	0	3	0	3
Chargeable Student Billets ACDU and TAR													
			45	0	45	0	45	0	45	0	45	0	45
TOTAL USN ENLISTED BILLETS:													
Operational			669	4	673	6	679	8	687	0	687	0	687
Fleet Support			97	0	97	0	97	0	97	0	97	0	97
Staff			18	0	18	0	18	0	18	0	18	0	18
Chargeable Student			45	0	45	0	45	0	45	0	45	0	45

c. OFFICER - USMC Not Applicable

d. ENLISTED - USMC Not Applicable

II.B. PERSONNEL REQUIREMENTS

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: A-191-0010, Shipboard Information Training and Entertainment Closed Circuit Television Maintenance
COURSE LENGTH: 18.0 Weeks **TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 10% **BACKOUT FACTOR:** 0.36

TRAINING		ACDU/TAR	CFY00		FY01		FY02		FY03		FY04	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
SSC Great Lakes, NTC Great Lakes												
	NAVY	ACDU		94		94		94		94		94
		TOTAL:		94		94		94		94		94

CIN, COURSE TITLE: K-652-2204, LAMPS MK-III RAST Electrical Technician
COURSE LENGTH: 5.0 Weeks **TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 10% **BACKOUT FACTOR:** 0.10

TRAINING		ACDU/TAR	CFY00		FY01		FY02		FY03		FY04	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
FTC Norfolk, NOB Norfolk												
	NAVY	ACDU		14		14		14		15		14
FTC San Diego, NTC San Diego												
	NAVY	ACDU		8		9		9		10		9
		TOTAL:		23		23		25		23		23

CIN, COURSE TITLE: C-670-2013, Stabilized Glide Slope Indicator and Wave-Off Light System Maintenance
COURSE LENGTH: 3.4 Weeks **TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 10% **BACKOUT FACTOR:** 0.07

TRAINING		ACDU/TAR	CFY00		FY01		FY02		FY03		FY04	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NAMTRAGRUDET 3040, NOB Norfolk												
	NAVY	ACDU		24		24		25		25		24
		TAR		3		3		3		3		3
NAMTRAGRUDET 3041, NAS North Island												
	NAVY	ACDU		16		16		17		17		17
		TAR		1		1		1		1		1
		TOTAL:		44		46		46		45		45

CIN, COURSE TITLE: A-651-0047, Propulsion Alarms and Indicating Systems Maintenance
COURSE LENGTH: 3.6 Weeks **TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 10% **BACKOUT FACTOR:** 0.07

TRAINING		ACDU/TAR	CFY00		FY01		FY02		FY03		FY04	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
FTC, Norfolk, NOB Norfolk												
	NAVY	ACDU		81		81		81		81		81
FTC, San Diego, NTC San Diego												
	NAVY	ACDU		81		81		81		81		81
		TOTAL:		162		162		162		162		162

PART III - TRAINING REQUIREMENTS

The following elements are not affected by the VLA for Air Capable Ships and, therefore, are not included in Part III of this NTSP:

III.A.2. Follow-on Training

III.A.2.c. Unique Courses

III.A.3. Existing Training Phased Out

III.A.1. INITIAL TRAINING REQUIREMENTS

COURSE TITLE:	Wind Measuring and Indicating System Instructor Initial Training
COURSE DEVELOPER:	NAWCADLKE
COURSE INSTRUCTOR:	NAWCADLKE
COURSE LENGTH:	5 Days
ACTIVITY DESTINATIONS:	FTC Norfolk
	FTC San Diego

LOCATION, UIC	**BEGIN DATE**	**STUDENTS OFF**	**ENL**	**CIV**	
NAWCAD Lakehurst, 45945	4th Qtr FY00		4		Input
			0.1		AOB
			0.01		Chargeable

III.A.2. FOLLOW-ON TRAINING

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: A-191-0010, Shipboard Information Training and Entertainment Closed Circuit Television Maintenance
TRAINING ACTIVITY: SSC Great Lakes
LOCATION, UIC: NTC Great Lakes, 30626

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

CFY00		FY01		FY02		FY03		FY04		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	94		94		94		94		94	ATIR
	85		85		85		85		85	Output
	30.3		30.3		30.3		30.3		30.3	AOB
	30.3		30.3		30.3		30.3		30.3	Chargeable

CIN, COURSE TITLE: K-652-2204, LAMPS MK-III RAST Electrical Technician
TRAINING ACTIVITY: FTC Norfolk
LOCATION, UIC: NOB Norfolk, 61797

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

CFY00		FY01		FY02		FY03		FY04		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	14		14		14		15		14	ATIR
	13		13		13		14		13	Output
	1.2		1.2		1.2		1.3		1.2	AOB
	1.2		1.2		1.2		1.3		1.2	Chargeable

TRAINING ACTIVITY: FTC San Diego
LOCATION, UIC: NTC San Diego, 61690

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

CFY00		FY01		FY02		FY03		FY04		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	8		9		9		10		9	ATIR
	7		8		8		9		8	Output
	0.7		0.8		0.8		0.9		0.8	AOB
	0.7		0.8		0.8		0.9		0.8	Chargeable

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: C-670-2013, Stabilized Glide Slope Indicator and Wave-Off Light System Maintenance
TRAINING ACTIVITY: NAMTRAGRUDET 3040
LOCATION, UIC: NOB Norfolk, 66046

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

CFY00		FY01		FY02		FY03		FY04		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	27		28		28		27		27	ATIR
	24		25		25		24		24	Output
	1.6		1.6		1.7		1.7		1.6	AOB
	1.6		1.6		1.7		1.7		1.6	Chargeable

TRAINING ACTIVITY: NAMTRAGRUDET 3041
LOCATION, UIC: NAS North Island, 66065

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

CFY00		FY01		FY02		FY03		FY04		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	17		18		18		18		18	ATIR
	15		16		16		16		16	Output
	1.1		1.1		1.1		1.1		1.1	AOB
	1.1		1.1		1.1		1.1		1.1	Chargeable

III.A.2.b. PLANNED COURSES

CIN, COURSE TITLE: A-651-0047, Propulsion Alarms and Indicating Systems Maintenance
TRAINING ACTIVITY: FTC, Norfolk
LOCATION, UIC: NOB Norfolk, 61797

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

CFY00		FY01		FY02		FY03		FY04		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	81		81		81		81		81	ATIR
	73		73		73		73		73	Output
	5.1		5.1		5.1		5.1		5.1	AOB
	5.1		5.1		5.1		5.1		5.1	Chargeable

CIN, COURSE TITLE: A-651-0047, Propulsion Alarms and Indicating Systems Maintenance
TRAINING ACTIVITY: FTC, San Diego
LOCATION, UIC: NTC San Diego, 61690

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

CFY00		FY01		FY02		FY03		FY04		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	81		81		81		81		81	ATIR
	73		73		73		73		73	Output
	5.1		5.1		5.1		5.1		5.1	AOB
	5.1		5.1		5.1		5.1		5.1	Chargeable

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

The following elements are not affected by the VLA for Air Capable Ships and, therefore, are not included in Part IV of this NTSP:

IV.A. Training Hardware

IV.A.2. Training Devices

IV.C. Facility Requirements

IV.C.1. Facility Requirements Summary (Space/Support) by Activity

IV.C.2. Facility Requirements Detailed by Activity and Course

IV.C.3. Facility Project Summary by Program

IV.A. TRAINING HARDWARE

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: A-191-0010, Shipboard Information Training and Entertainment Closed Circuit Television Maintenance
TRAINING ACTIVITY: SSC Great Lakes
LOCATION, UIC: NTC Great Lakes, 30626

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
015	Black and White Monitor	28	Mar 95	GFE	Onboard
016	Color Camera	16	Mar 95	GFE	Onboard
017	Color Monitor	21	Mar 95	GFE	Onboard
018	Camcorder	10	Mar 95	GFE	Onboard
019	Color Receiver	20	Mar 95	GFE	Onboard
020	Video Recorder	10	Mar 95	GFE	Onboard
021	Ships Information Console	3	Mar 95	GFE	Onboard
022	Bulk Tape Eraser	2	Mar 95	GFE	Onboard
GPTE					
033	Digital Multimeter	17	Mar 95	GFE	Onboard
034	Oscilloscope	17	Mar 95	GFE	Onboard
037	Video Analyzer	17	Mar 95	GFE	Onboard
038	Isolation Transformer	17	Mar 95	GFE	Onboard
039	High Voltage Probe	17	Mar 95	GFE	Onboard
040	Waveform Monitor	17	Mar 95	GFE	Onboard
041	Vectorscope	8	Mar 95	GFE	Onboard
042	Field Strength Meter	10	Mar 95	GFE	Onboard
043	Lightmeter	3	Mar 95	GFE	Onboard
ST					
028	Tool Kit Television Repair	3	Mar 95	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

029	Lighting Kit	3	Mar 95	GFE	Onboard
051	Light Box PTB-500	8	Mar 95	GFE	Onboard

CIN, COURSE TITLE: K-652-2204, LAMPS MK-III RAST Electrical Technician
TRAINING ACTIVITY: FTC Norfolk
LOCATION, UIC: NOB Norfolk, 61797

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
013	RAST System	1	Mar 95	GFE	Onboard
014	Horizon Reference Set	1	Mar 95	GFE	Onboard
GPTE					
031	Stop Watch	1	Mar 95	GFE	Onboard
032	Headset, Sound Powered	2	Mar 95	GFE	Onboard
033	Digital Multimeter	1	Mar 95	GFE	Onboard
034	Oscilloscope	1	Mar 95	GFE	Onboard
035	Ultraviolet Light, Magnaflux	1	Mar 95	GFE	Onboard
036	RPM Indicator	1	Mar 95	GFE	Onboard
ST					
025	Plate, Restraint	1	Mar 95	GFE	Onboard
026	Electrical Tool Kit	1	Mar 95	GFE	Onboard
027	Mechanical Took Kit	1	Mar 95	GFE	Onboard
050	Calibration Kit	1	Mar 95	GFE	Onboard

CIN, COURSE TITLE: K-652-2204, LAMPS MK-III RAST Electrical Technician
TRAINING ACTIVITY: FTC San Diego
LOCATION, UIC: NTC San Diego, 61690

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
013	RAST System	1	Mar 95	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

014	Horizon Reference Set	1	Mar 95	GFE	Onboard
GPTE					
031	Stop Watch	1	Mar 95	GFE	Onboard
032	Headset, Sound Powered	2	Mar 95	GFE	Onboard
033	Digital Multimeter	1	Mar 95	GFE	Onboard
034	Oscilloscope	1	Mar 95	GFE	Onboard
035	Ultraviolet Light, Magnaflux	1	Mar 95	GFE	Onboard
036	RPM Indicator	1	Mar 95	GFE	Onboard
ST					
025	Plate, Restraint	1	Mar 95	GFE	Onboard
026	Electrical Tool Kit	1	Mar 95	GFE	Onboard
027	Mechanical Took Kit	1	Mar 95	GFE	Onboard
050	Calibration Kit	1	Mar 95	GFE	Onboard

CIN, COURSE TITLE: C-670-2013, Stabilized Glide Slope Indicator and Wave-Off Light System Maintenance
TRAINING ACTIVITY: NAMTRAGRUDET 3040
LOCATION, UIC: NOB Norfolk, 66046

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
010	FDSSS Installation	1	Mar 95	GFE	Onboard
011	SGSI Installation	1	Mar 95	GFE	Onboard
012	Wave-Off Light System	1	Mar 95	GFE	Onboard
GPTE					
030	800A Digital Volt Meter	12	Mar 95	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: C-670-2013, Stabilized Glide Slope Indicator and Wave-Off Light System Maintenance
TRAINING ACTIVITY: NAMTRAGRUDET 3041
LOCATION, UIC: NAS North Island, 66065

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
010	FDSSS Installation	1	Mar 95	GFE	Onboard
011	SGSI installation	1	Mar 95	GFE	Onboard
012	Wave-Off Light System	1	Mar 95	GFE	Onboard
GPTE					
030	800A Digital Volt Meter	12	Mar 95	GFE	Onboard

CIN, COURSE TITLE: A-651-0047, Propulsion Alarms and Indicating Systems Maintenance
TRAINING ACTIVITY: FTC Norfolk
LOCATION, UIC: NOB Norfolk, 61797

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
001	Detector Wind Direction	1	Jul 00	GFE	Pending
002	Mount, Detector, Wind Direction	1	Jul 00	GFE	Pending
003	Transmitter, Wind Direction	1	Jul 00	GFE	Pending
004	Indicator, Wind Direction	1	Jul 00	GFE	Pending
005	Synchro Panel	1	Jul 00	GFE	Pending
006	Test Panel Assembly	1	Jul 00	GFE	Pending
007	Wind Measuring Set	1	Jul 00	GFE	Pending
008	Indicator, Single Bite	12	Jul 00	GFE	Pending
009	NAVAIR Certification and Test Kit	1	Jul 00	GFE	Pending

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: A-651-0047, Propulsion Alarms and Indicating Systems Maintenance
TRAINING ACTIVITY: FTC San Diego
LOCATION, UIC: NTC San Diego, 61690

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
001	Detector Wind Direction	1	Jul 00	GFE	Pending
002	Mount, Detector, Wind Direction	1	Jul 00	GFE	Pending
003	Transmitter, Wind Direction	1	Jul 00	GFE	Pending
004	Indicator, Wind Direction	1	Jul 00	GFE	Pending
005	Synchro Panel	1	Jul 00	GFE	Pending
006	Test Panel Assembly	1	Jul 00	GFE	Pending
007	Wind Measuring Set	1	Jul 00	GFE	Pending
008	Indicator, Single Bite	12	Jul 00	GFE	Pending
009	NAVAIR Certification and Test Kit	1	Jul 00	GFE	Pending

IV.B. COURSEWARE REQUIREMENTS

IV.B.1. TRAINING SERVICES

COURSE / TYPE OF TRAINING	SCHOOL LOCATION, UIC	NO. OF PERSONNEL	MAN WEEKS REQUIRED	DATE BEGIN
Wind Measuring and Indicating System FY01 Instructor Initial Training	NAWCAD Lakehurst, New Jersey, 45945	2	2	1st Qtr

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: A-191-0010, Shipboard Information Training and Entertainment Closed Circuit Television Maintenance
TRAINING ACTIVITY: SSC Great Lakes
LOCATION, UIC: NTC Great Lakes, 30626

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Instructor Guide	2	Mar 95	Onboard
Overhead Projector	1	Mar 95	Onboard
Prefaulted Module Set	1	Mar 95	Onboard
Student Guide	15	Mar 95	Onboard
Student Test	15	Mar 95	Onboard
Student Text (NEETS Modules 1 through 23)	1	Mar 95	Onboard
Transistor Trainer	16	Mar 95	Onboard
Transparencies	1 Set	Mar 95	Onboard
Video Tape: Antennas	1	Mar 95	Onboard
Video Tape: Resonant Lines	1	Mar 95	Onboard
Video Tape: Similarities of Wave Behavior	1	Mar 95	Onboard
Video Tape: Transmission Line Theory	1	Mar 95	Onboard
Wall Chart	1 Set	Mar 95	Onboard

CIN, COURSE TITLE: K-652-2204, LAMPS MK-III RAST Electrical Technician
TRAINING ACTIVITY: FTC Norfolk
LOCATION, UIC: NOB Norfolk, 61797

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
35 Millimeter Slide Set	1	Mar 95	Onboard
LAMPS MK-III RAST Electrical Technician Instructor Guide	2	Mar 95	Onboard
LAMPS MK-III RSAT Electrical Technician Trainee Guide	10	Mar 95	Onboard
Overhead Projector	1	Mar 95	Onboard
Prefaulted Module Set	1	Mar 95	Onboard
Slide Projector	1	Mar 95	Onboard
Sony Color Monitor	1	Mar 95	Onboard
Transparencies	1 Set	Mar 95	Onboard
Video Cassette Recorder	1	Mar 95	Onboard
Video Tape: LAMPS MK-III RAST System	1	Mar 95	Onboard

CIN, COURSE TITLE: K-652-2204, LAMPS MK-III RAST Electrical Technician
TRAINING ACTIVITY: FTC San Diego
LOCATION, UIC: NTC San Diego, 61690

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
35 Millimeter Slide Set	1	Mar 95	Onboard
LAMPS MK-III RAST Electrical Technician Instructor Guide	2	Mar 95	Onboard
LAMPS MK-III RSAT Electrical Technician Trainee Guide	10	Mar 95	Onboard
Overhead Projector	1	Mar 95	Onboard
Prefaulted Module Set	1	Mar 95	Onboard
Slide Projector	1	Mar 95	Onboard
Sony Color Monitor	1	Mar 95	Onboard
Transparencies	1 Set	Mar 95	Onboard
Video Cassette Recorder	1	Mar 95	Onboard
Video Tape: LAMPS MK-III RAST System	1	Mar 95	Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: C-670-2013, Stabilized Glide Slope Indicator and Wave-Off Light System Maintenance
TRAINING ACTIVITY: NAMTRAGRUDET 3040
LOCATION, UIC: NOB Norfolk, 66046

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Instructor Guide	1	Mar 95	Onboard
Student Guide	25	Mar 95	Onboard
Student Test	25	Mar 95	Onboard
Transparencies	1 Set of	Mar 95	Onboard
Wall Chart	8	Mar 95	Onboard

CIN, COURSE TITLE: C-670-2013, Stabilized Glide Slope Indicator and Wave-Off Light System Maintenance
TRAINING ACTIVITY: NAMTRAGRUDET 3041
LOCATION, UIC: NAS North Island, 66065

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Instructor Guide	1	Mar 95	Onboard
Student Guide	25	Mar 95	Onboard
Student Test	25	Mar 95	Onboard
Transparencies	1 Set of	Mar 95	Onboard
Wall Chart	8	Mar 95	Onboard

CIN, COURSE TITLE: A-651-0047, Propulsion Alarms and Indicating Systems Maintenance
TRAINING ACTIVITY: FTC Norfolk
LOCATION, UIC: NOB Norfolk, 61797

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Instructor Guide	1	Jul 00	Onboard
Student Guide Volume I	9	Jul 00	Onboard
Student Guide Volume II	9	Jul 00	Onboard
Transparencies	10	Jul 00	Onboard
Video Cassette, Wind Measuring System	1	Jul 00	Onboard
Wall Chart	1	Jul 00	Onboard

CIN, COURSE TITLE: A-651-0047, Propulsion Alarms and Indicating Systems Maintenance
TRAINING ACTIVITY: FTC San Diego
LOCATION, UIC: NTC San Diego, 61690

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Instructor Guide	1	Jul 00	Onboard
Student Guide Volume I	9	Jul 00	Onboard
Student Guide Volume II	9	Jul 00	Onboard
Transparencies	10	Jul 00	Onboard
Video Cassette, Wind Measuring System	1	Jul 00	Onboard
Wall Chart	1	Jul 00	On-board

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: A-191-0010, Shipboard Information Training and Entertainment Closed Circuit Television Maintenance

TRAINING ACTIVITY: SSC Great Lakes
LOCATION, UIC: NTC Great Lakes, 30626

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
ISBN 0-07-024928-8 Basic Electronics	Hard copy	1	Mar 95	Onboard
ISBN 0-07-024931-8 Electronic Circuits and Applications		1	Mar 95	Onboard
ISBN 0-07-024933-4 Basic Television and Video Systems	Hard copy	14	Mar 95	Onboard
ISBN 0-672-22749-5 VCR Theory and Repair	Hard copy	14	Mar 95	Onboard
NAVSEA 0967-LP-000-0120 Electronic Circuits	Hard copy	1	Mar 95	Onboard
SE101-B9-OMP-020 Maintenance Manual for Shipboard Information, Training, and Entertainment System AN/UXQ-19 (Volumes 1 through 12)	Hard copy	3 Sets	Mar 95	Onboard

CIN, COURSE TITLE: K-652-2204, LAMPS MK-III RAST Electrical Technician
TRAINING ACTIVITY: FTC Norfolk
LOCATION, UIC : NOB Norfolk, 61797

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
AD-400A1-IPB-000 Illustrated Parts Breakdown, Horizon Reference Set A/W37A-1	Hard copy	9	Mar 95	Onboard
AD-400A1-MDB-000 HRS Intermediate/Depot Maintenance with Illustrated Parts Breakdown	Hard copy	9	Mar 95	Onboard
AD-400A1-OMB-000 Horizon Reference Set A/W37A-1	Hard copy	9	Mar 95	Onboard
AD-700A1-0MI-000 Recovery Assist, Securing and Traversing (RAST) System A/W 42U-1 (V)	Hard copy	9	Mar 95	Onboard
AD-700A1-IPB-000 Illustrated Parts Breakdown, RAST System A/W 42U-1 (V)	Hard copy	9	Mar 95	Onboard

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: K-652-2204, LAMPS MK-III RAST Electrical Technician
TRAINING ACTIVITY: FTC San Diego
LOCATION, UIC: NTC San Diego, 61690

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
AD-400A1-IPB-000 Illustrated Parts Breakdown, Horizon Reference Set A/W37A-1	Hard copy	9	Mar 95	Onboard
AD-400A1-MDB-000 HRS Intermediate/Depot Maintenance with Illustrated Parts Breakdown	Hard copy	9	Mar 95	Onboard
AD-400A1-OMB-000 Horizon Reference Set A/W37A-1	Hard copy	9	Mar 95	Onboard
AD-700A1-0MI-000 Recovery Assist, Securing and Traversing (RAST) System A/W 42U-1 (V)	Hard copy	9	Mar 95	Onboard
AD-700A1-IPB-000 Illustrated Parts Breakdown, RAST System A/W 42U-1 (V)	Hard copy	9	Mar 95	Onboard

CIN, COURSE TITLE: C-670-2013, Stabilized Glide Slope Indicator and Wave-Off Light System Maintenance
TRAINING ACTIVITY: NAMTRAGRUDET 3040
LOCATION, UIC : NOB Norfolk, 66046

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
AD-400B1-OMI-000 Flight Deck Status and Signaling System For Air Capable Ships A/W24A-1	Hard copy	15	Mar 95	Onboard
NAVAIR 51-5B-2 Stabilized Glide Slope Indicator MK1 MOD 0 For Air Capable Ships	Hard copy	15	Mar 95	Onboard
NAVAIR 51-5B-3 Wave-Off Light System MK1 MOD 0 for Air Capable Ships	Hard copy	15	Mar 95	Onboard

CIN, COURSE TITLE: C-670-2013, Stabilized Glide Slope Indicator and Wave-Off Light System Maintenance
TRAINING ACTIVITY: NAMTRAGRUDET 3041
LOCATION, UIC : NAS North Island, 66065

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
AD-400B1-OMI-000 Flight Deck Status and Signaling System For Air Capable Ships A/W24A-1	Hard copy	15	Mar 95	Onboard
NAVAIR 51-5B-2 Stabilized Glide Slope Indicator MK1 MOD 0 For Air Capable Ships	Hard copy	15	Mar 95	Onboard

IV.B.3. TECHNICAL MANUALS

NAVAIR 51-5B-3 Wave-Off Light System MK1 MOD 0 for Air Capable Ships	Hard copy	15	Mar 95	Onboard

CIN, COURSE TITLE: A-651-0047, Propulsion Alarms and Indicating Systems Maintenance
TRAINING ACTIVITY: FTC Norfolk
LOCATION, UIC : NOB Norfolk,61797

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
AM-410AA-MAN-000 Operational and Maintenance Instructions with Illustrated Parts Breakdown for Type B WMIS	Hard copy	12	Jul 00	Onboard
AM-410AB-MAN-000 Operational and Maintenance Instructions With Illustrated Parts Breakdown for Type F WMIS	Hard copy	12	Jul 00	Onboard
AM-420-AD-MAN-000 Cross Wind and Head Wind Computer Assembly and Speed Indicator	Hard copy	12	Jul 00	Onboard

CIN, COURSE TITLE: A-651-0047, Propulsion Alarms and Indicating Systems Maintenance
TRAINING ACTIVITY: FTC San Diego
LOCATION, UIC : NTC San Diego, 61690

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
AM-410AA-MAN-000 Operational and Maintenance Instructions with Illustrated Parts Breakdown for Type B WMIS	Hard copy	12	Jul 00	Onboard
AM-410AB-MAN-000 Operational and Maintenance Instructions With Illustrated Parts Breakdown for Type F WMIS	Hard copy	12	Jul 00	Onboard
AM-420-AD-MAN-000 Cross Wind and Head Wind Computer Assembly and Speed Indicator	Hard copy	12	Jul 00	Onboard

PART V - MPT MILESTONES

COG CODE	MPT MILESTONES	DATE	STATUS
TSA	Distributed Draft NTP for review.	Oct 91	Completed
ACNO	Chair NTP Conference.	Feb 93	Completed
PDA	Submitted Proposed NTP to OPNAV.	Jul 93	Completed
ACNO	Approved NTP.	Aug 93	Completed
TA	Began HOSS, HRS, SGSI, FDSSS, and WOL Follow-On Training.	Oct 95	Completed
TSA	Assessed WMIS Training Requirements.	Aug 96	Completed
TSA	Distributed Draft NTSP (Update).	Oct 99	Completed
TSA	Determine WMIS Test Sets, Tools, and Test Equipment Requirements For Training.	Nov 99	Pending
TSA	Deliver WMIS Curricula Materials.	Jul 00	Pending
TSA	Deliver WMIS Test Sets, Tools, and Test Equipment.	Jul 00	Pending
TSA	Deliver WMIS TTE.	Jul 00	Pending
TA	Begin WMIS Follow-On Training.	Oct 00	Pending

PART VI - DECISION ITEMS/ACTION REQUIRED

DECISION ITEM OR ACTION REQUIRED	COMMAND ACTION	DUE DATE	STATUS
None			

PART VII - POINTS OF CONTACT

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